



Producers **GRADING GUIDE**



PUBLISHED BY

The
NORTH-WEST LINE ELEVATORS
Association

TO CALCULATE THE NUMBER OF BUSHELS OF GRAIN IN A BIN

1. Determine the number of cubic feet in the bin.
 - (a) For square or rectangular bins, multiply the length by the width by the depth.
 - (b) For round bins, multiply the radius by the radius by 3.14 by the depth (the radius is one-half the diameter).
2. Convert cubic feet to measured bushels by multiplying the number of cubic feet by the factor 0.78.
3. Convert measured bushels to bushels by weight, by multiplying the number of measured bushels by the actual weight per measured bushel of the grain, and divide by the legal weight per measured bushel (wheat 60 lbs.; barley, 48 lbs.; oats, 34 lbs.; flax, 56 lbs.; and rye, 56 lbs.).

Example (a)—A rectangular bin 8' by 16' contains wheat weighing 65 lbs. to the bushel to a depth of 6 feet. How many bushels by weight are in the bin?

Number of cubic feet $8 \times 16 \times 6 = 768$.

Number of measured bushels $768 \times 0.78 = 599.04$

Number of bus. by weight $599.04 \times 65 / 60 = 648.96$

Example (b)—A round bin 16 ft. in diameter is filled with wheat weighing 65 lbs. to the bushel to a depth of 6 feet. How many bushels by weight are in the bin?

Number of cubic feet $8 \times 8 \times 3.14 \times 6 = 1205.76$

Number of measured bushels $1205.76 \times 0.78 = 940.49$

Number of bus. by weight $= 940.49 \times 65 / 60 = 1018.87$

Grading Of Farm Products

Government grading of Canadian farm products is essentially an aid to orderly marketing and efficient buying and selling. The confidence created by this system of grading has been an important factor in expanding both domestic and export demand for agricultural products.

The grading and inspection of farm products arose from the desire and need of producers, dealers, and consumers for a uniform "yardstick" with which to measure important variations in quality. The producer is interested in obtaining for his product, a price commensurate with its quality. The processor and distributor need a quality gauge to facilitate buying and selling, particularly at long distances. The consumer wants assurance that he is obtaining a product of a quality in line with the price paid.

These needs, translated into legislative action, have resulted in government grading standards for practically every article of produce sold by farmers. While this information is available free upon request, the farmer must secure and study a large number of federal acts to become familiar with the grade standards of the products he has for sale.

The member companies of the North West Line Elevators Association believe the farmer has a right to know, and should know, all details as to the manner of grading and marketing his own products. It is our hope that this book will make it a great deal easier for farmers to acquaint themselves with these grade standards. We believe this Producers Grading Guide should prove most useful and popular with farmers.

The North West Line Elevators Association

Prepared by

LINE ELEVATORS FARM SERVICE

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Producers Grading Guide

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WESTERN CANADA GRAIN GRADES

DEFINITIONS

The Canada Grain Act is administered by the Board of Grain Commissioners of the Dominion Department of Trade and Commerce.

Statutory Grades. The Statutory grades of grain are defined in the Canada Grain Act by statute or act of Parliament.

Commercial Grades. The Commercial grades of grain are set up each year by the Western Committee on Grain Standards.

"Off" Grades. The "off" grades include all grain which for various reasons will not meet the requirements of the Statutory or Commercial grades. Grain is graded into the "off" grades for excessive moisture or foreign odors, for heated, bin burnt, musty, frosted, sprouted, smutty or cracked kernels; and for admixtures of other grains or for foreign material such as gravel, Ragweed, Tartarian Buckwheat, etc.

GRADING FACTORS

With the exception of weight per measured bushel, moisture content, and purity, grain is evaluated for grading mainly on a system of visual inspection.

Weight per Measured Bushel is an indication of the plumpness and milling value of the grain, i.e.; the amount of flour that can be made from a bushel of wheat.

Variety. Because of their inherent qualities certain varieties are permitted into the top grades and certain others are not.

Hard Vitreous Kernels (Wheat only). The percentage of hard vitreous kernels is an indication of the quality and consequently the blending value for breadmaking and macaroni quality of common and durum wheat respectively. In other words, piebald and starchy kernels cause wheat to be degraded according to the percentage given in the grade definitions.

Soundness. "The standard of quality," as it is designated in the grade definitions, is affected by **disease** (Smut, Smudge or Black Point), **weather** (excessive moisture, sprouted, frosted, bleached or improperly ripened), **storage** (heated, musty or bin burnt, and **mechanical damage** (cracked, broken or peeled).

Purity. Impurities which can be easily removed in cleaning are classed as dockage and expressed in percentage, i.e.; small seeds, broken kernels, trash. Grain containing impurities or mixtures that can be readily cleaned out and are of value, is graded into the C.C. grades (cleaned until clean). Impurities which cannot be cleaned out cause the grain to be degraded, rejected or placed into the mixed grain grades depending on the amount present.

"Where impurities in any of the "off" grades are designated by count, the official sample size is based on 500 grams or 17½ ounces".

NOTES

RED SPRING

Red Spring Wheat otherwise eligible for the grade of No. 1 Manitoba Hard but containing up to 1 per cent of wheat of other classes or varieties including Garnet will be graded No. 1 Manitoba Northern.

Red Spring Wheat otherwise eligible for the grade of No. 1 Manitoba Hard or No. 1 Manitoba Northern but containing more than 1 per cent but not more than 3 per cent of wheat of other classes or varieties including Garnet will be graded No. 2 Manitoba Northern.

Red Spring Wheat otherwise eligible for any of the first three grades of Red Spring Wheat, No. 1 Manitoba Hard, No. 1 Manitoba Northern, No. 2 Manitoba Northern, but containing over 3 per cent but not more than 10 per cent of other varieties of Red Spring Wheat including Garnet will be graded No. 3 Manitoba Northern.

Red Spring Wheat otherwise eligible for any of the first four grades of Red Spring Wheat, No. 1 Manitoba Hard, No. 1 Manitoba Northern, No. 2 Manitoba Northern or No. 3 Manitoba Northern, but containing over 10 per cent of other varieties of Red Spring Wheat (including Garnet) will be graded as No. 1 Mixed Wheat.

Red Spring Wheat otherwise eligible for the grade of No. 4 Manitoba Northern but containing over 10 per cent of other varieties of Red Spring wheat (including Garnet) will be graded as No. 5 Wheat.

GARNET

Garnet wheat not eligible for one of the first three grades will be graded into No. 4 Special or the commercial grades of Red Spring Wheat No. 5. No. 6 or Feed Wheat, or special commercial grades, No. 5 Special and No. 6 Special, or into commercial grades of Garnet Wheat which may be named and defined by the Western Committee on Grain Standards.

STATUTORY GRADES

STANDARD OF QUALITY				MAXIMUM LIMITS OF FOREIGN MATERIAL			
WINTER WHEAT	Min. Wgt. per Bus.	Variety	Min. % Hard Vitreous Kernels	Soundness	Foreign material other than wheat.		Wheats of other classes or varieties.
					Matter other than Cereal Grains	Total including Cereal Grains	
1 Alberta Red	62	Any variety of Red Winter Wheat.	60	Well matured, practically free from damaged kernels.	Practically free	About 1%	5%
2 Alberta	60	Any variety of Winter Wheat	45	Well matured, practically free from damaged kernels	Reasonably free	About 2%	10%
3 Alberta	57	Any variety of Winter Wheat	..	Reasonably well matured, but excluded from preceding grades on account of frosted or otherwise damaged kernels.	Reasonably free	About 2½%	20%
AMBER DURUM	•	•	•	•	•	•	Total + Red Durum
1 C.W.	62	Mindum or equal to Mindum.	80	Well matured, practically free from damaged kernels.	Practically free	About ½%	5%
2 C.W.	60	Mindum or equal to Mindum.	65	Well matured, practically free from damaged kernels	Practically free	About 1%	10%
3 C.W.	58	Any variety of Amber Durum	40	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 2%	15%
4 C.W.	56	Any variety of Amber Durum	...	Reasonably well matured, but excluded from preceding grades on account of frosted or otherwise damaged kernels.	Reasonably free	About 2½%	20%
5 C.W.	54	Any variety of Amber Durum	...	Frosted or otherwise damaged kernels.	Reasonably free	3%	25%
6 C.W.	...	Any variety of Amber Durum	...	Excluded from preceding grades on account of damage or light weight.	Reasonably free	3%	30%

Golden Ball and Pellasier or mixtures thereof shall be excluded from No. 1 C.W. when in excess of 5% and from No. 2 C.W. when in excess of 10%

RED DURUM — All Red Durum Wheat and any other wheats containing over 10% of Red Durum shall be graded as "Canada Western Red Durum" irrespective of quality

*Same headings apply as for Winter Wheat.

COMMERCIAL GRADES

WHEAT	Min. Wgt. Per Bus.	VARIETY	STANDARD OF QUALITY	MAXIMUM LIMITS OF FOREIGN MATERIAL		
				Foreign Material other than Wheat.		Wheats of other Classes
				Matter other than Cereal Grains	Total Including Cereal Grains	Durum
No. 5 Wheat	53	Red or White Spring, or Winter	Excluded from higher grades on account of frosted or otherwise damaged kernels.	Reasonably free	About 3%	5%
No. 6 Wheat	51	Red or White Spring or Winter	Excluded from higher grades on account of frosted or otherwise damaged kernels.	Reasonably free	About 3%	6%
*No. 5 Special	51	Any variety of Red Spring	Reasonably well matured, rusted or shrunken but otherwise reasonably sound.	Reasonably free	3%	5%
*No. 6 Special	49	Any variety of Red Spring	Reasonably well matured, rusted or shrunken but otherwise reasonably sound.	Reasonably free	3%	5%
Feed Wheat	...	Any variety	Too badly damaged for higher grades or on account of light weight.	About 3% seed or Mixed Feed Oats.	About 13%	10%

*These grades are only used as occasion arises on account of a considerable quantity of rusted or shrunken wheat.

STANDARD OF QUALITY (Effective August 1, 1947)				MAXIMUM LIMITS OF FOREIGN MATERIAL		
SOFT WHITE SPRING WHEAT	Min. Wgt. Per Bus.	VARIETY	SOUNDNESS	Foreign Material other than Wheat.		Wheat of other Classes.
				Matter other than cereal grains	Total Including Cereal Grains	Durum
				Practically free	Practically free	Total Including Durum
1 C.W.	60	Lemhi or equal to Lemhi.	Well matured, practically free from damaged kernels.	Practically free	Practically free	1%
2 C.W.	58	Any Soft White Spring of good milling quality	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 1%	About 2%
3 C.W.	57	Any Soft White Spring of fair milling quality	Reasonably well matured, excluded from higher grades on account of lightly frosted, immature or other light damage.	Reasonably free	About 2%	4%
4 C.W.	54	Any Soft White Spring	Reasonably well matured, excluded from higher grades on account of frosted, immature or other damage.	Reasonably free	3%	5%

3%

5%

10%

20%

Garnet Wheat otherwise eligible for the grades of No. 1 C.W., No. 2 C.W., or No. 3 C.W. Garnet but containing over fifteen per cent of Wheats of other classes or varieties of Red Spring Wheat will be graded as No. 1 Mixed Wheat.

WINTER WHEAT

All winter wheat below No. 3 Alberta Winter in quality may be graded in the lower grades of Red Spring Wheat according to grade requirements.

AMBER DURUM

No. 1 and No. 2 C.W. Amber Durum carrying over 10% and up to 15% of wheats of other classes will be graded as No. 3 C.W. Amber Durum; when carrying over 15%, as No. 5 Mixed Wheat.

NOTES

BARLEY

SOUND—Shall mean practically free from frosted, free from sprouted or heated kernels, and shall be reasonably free from broken, peeled or otherwise damaged kernels.

SEEDS—BARLEY, OATS OR MIXED GRAIN

All grades shall be practically free of seeds and other material removable through a sieve with $4\frac{1}{2}/64$ " round perforations.

The percentage of tolerance of seeds specified in the grades shall refer to large seeds such as Wild Buckwheat.

"Any large seeds above tolerance in each grade to be treated as dockage, (e.g. 1 Feed Oats containing 4% large seeds, 2% allowed in grade and 2% would be considered as dockage along with any small seeds.)"

STATUTORY GRADES

STANDARD OF QUALITY				MAXIMUM LIMITS OF FOREIGN MATERIAL				
BARLEY	Min. Wgt. per Bus.	VARIETY	Minimum percentage of variety or type	SOUNDNESS	MAXIMUM LIMITS OF FOREIGN MATERIAL			
					Seeds (See note)	Wild Oats	Other Grains	Total not to exceed
1 C.W. Six-Row	50	Any Six-Row variety equal for malting purposes to O.A.C. 21	95	Sound, well matured, may contain slightly weather-stained kernels.	Practically free	About ½ %	About 1 %	About 1 %
2 C.W. Six-Row	48	Any Six-Row variety equal for malting purposes to O.A.C. 21.	90	Sound, reasonably well matured, may contain weather-stained, but not badly discoloured kernels.	Practically free	About ½ %	About 1½ %	About 1½ %
3 C.W. Six-Row	46	Any Six-Row variety of fair malting quality	85	Practically sound, reasonably well matured, may contain weather-stained kernels.	About 1 %	About 1 %	3 %	4 %
1 C.W. Two-Row	51	Any Two-Row variety equal for pearling or malting purposes to Canadian Thorpe.	95	Sound, well matured, may contain slightly weather-stained kernels.	Practically free	About ½ %	About 1 %	About 1 %
2 C.W. Two-Row	49	Any Two-Row variety equal for pearling or malting purposes to Canadian Thorpe.	90	Sound, reasonably well matured, may contain weather-stained, but not badly discoloured kernels.	Practically free	About ½ %	About 1½ %	About 1½ %
No. 1 Feed	46	Any variety or type or combination of varieties or types.		Frosted, weather-stained or otherwise damaged, but sweet.	About 2 %	4 %	4 %	4 %
No. 2 Feed	43	Any variety or type or combination of varieties or types.		Frosted, weather-stained or otherwise damaged, but sweet; may contain 3 % heat damage	3 %	10 %	10 %	10 %
No. 3 Feed		Any variety or type or combination of varieties or types.		Excluded from the preceding grades on account of weight or mixtures, may contain 5 % heat damage	3 %	20 %	20 %	20 %

COMMERCIAL GRADES

2 C.W. Yellow	48	Any six-row, smooth awn, yellow or white variety equal for malting purposes to Wisc. consin 38.	90	Reasonably well matured, sound, may contain weather-stained, but not badly discoloured kernels	Practically free	About ½ %	About ½ %	About 1½ %
3 C.W. Yellow	46	Any six-row, smooth awn, yellow or white variety of fair malting quality	85	Reasonably well matured, practically sound, may contain weather-stained kernels.	About 1 %	About 1 %	About 3 %	About 4 %

BARLEY VARIETIES WHICH QUALIFY FOR THE VARIOUS GRADES

No. 1 C.W. Six-Row	{ Manchurian, Mensury, Montcalm, O.A.C. 21 and Olli.
No. 2 C.W. Six-Row	{ Manchurian, Mensury, Montcalm, O.A.C. 21 and Olli.
No. 3 C.W. Six-Row	{ Gartons, Manchurian, Mensury, Montcalm, O.A.C. 21, Olli and Peatland.
No. 1 C.W. Two-Row	{ Canadian Thorpe, Charlottetown 80 and Hannchen.
No. 2 C.W. Two-Row	
No. 2 C.W. Yellow	{ Newal, Prospect, Regal and Wisconsin 38.
No. 3 C.W. Yellow	{ Newal, Prospect, Regal and Wisconsin 38.
No. 1 Feed	{ Colsess, Compana, Galore, Glacier, Horn, Plush, Rex, Sanalta, Titan, Trebi, Vantage and Warrior.
No. 2 Feed	{ Colsess, Compana, Galore, Glacier, Horn, Plush, Rex, Sanalta, Titan, Trebi, Vantage and Warrior.
No. 3 Feed	{ Colsess, Compana, Galore, Glacier, Horn, Plush, Rex, Sanalta, Titan, Trebi, Vantage and Warrior.

White hulless will qualify for No. 1 Feed.

Coloured hulless and black barley will qualify for No. 2 Feed.

RYE

All grades of Rye are required to be commercially free from seeds. No. 5 and No. 6 Buckwheat Sieves are used to remove seeds and broken rye.

FLAX SEED

FLAX AND BROKEN GRAIN—Shall be composed of Flax mixed with broken grain of any description that cannot be classified under any established grade. Flax predominating.

STATUTORY GRADES

STANDARD OF QUALITY				MAXIMUM LIMITS OF FOREIGN MATERIAL			
OATS	Min. Wgt. per Bus.	VARIETIES	SOUNDNESS	Seeds (see note)	Wild Oats	Other Grains	Total not to exceed
1 C.W.	38	55% White	Well matured, practically free from damage.	Practically free	About 1%	Practically free	About 1%
2 C.W.	36	90% White	Well matured, practically free from damage.	Practically free	About 2%	About 2%	3%
Extra 3 C.W.	40	Domestic Oats, any variety	Reasonably well matured, practically free from damage.	Practically free	About 2%	About 2%	3%
3 C.W.	34	Domestic Oats, any variety	Reasonably well matured, practically free from damage.	About 1%	4%	4%	6%
Extra 1 Feed	38	Domestic Oats, any variety	Reasonably well matured, and sound except as to frost.	About 1%	About 2%	6%	6%
1 Feed	34	Domestic Oats, any variety	Reasonably well matured, but frosted, stained, or otherwise damaged. May contain 2% heat damage.	About 2%	7%	12%	12%
2 Feed	28	Domestic Oats, any variety	Frosted, immature, stained or otherwise damaged. May contain 3% heat damage.	3%	12%	22%	22%
3 Feed	...	Domestic Oats, any variety	Light weight, immature, damaged. May contain 5% heat damage	3%	25%	33%	33%
Mixed Feed	...	Wild Oats predominating	Reasonably sound, practically free of Oat Hulls.	About 4% knuckles, wheat heads or seeds	---	49%	49%

RYE	Min. Wgt. per Bus.	SOUNDNESS	Percentage of Ergot after dockage removed	Matter other than cereal grains	Cereal grains other than wheat	Total foreign material including wheat
1 C.W.	58	Sound	Free	Practically free	Practically free	Practically free
2 C.W.	56	Sound	Not more than 1/3 of 1%	About 1/2	About 1 1/2%	About 2%
3 C.W.	54	Reasonably sound. Slightly damaged.	Not more than 1/3 of 1%	About 1%	3%	5%
4 C.W.	...	Damaged with not more than about 5% heat damage.	Over 1/3 of 1%	About 2%	7%	10%
C.W. Ergoty Rye	...	Excluded from preceding grades on account of ergot.	Over 1/3 of 1%	About 2%	7%	10%
C.W. Ergoty and other Grains	...	Excluded from preceding grades on account of admixture of other grains, Rye predominating.	Over 1/3 of 1%	About 2%	7%	10%

COMPOSITION			STANDARD OF QUALITY	
MIXED GRAIN		PREDOMINANT KIND OF GRAIN		
1 C.W. Mixed Grain	Wheat and other cereal grains and/or Wild Oats.	Wheat	Excluded from any other established grades on account of mixture of cereal grains. Reasonably clean.	...
2 C.W. Mixed Grain	Rye and other cereal grains and/or Wild Oats.	Rye	Excluded from any other established grades on account of mixture of cereal grains. Reasonably clean.	...
3 C.W. Mixed Grain	Barley and/or Oats and other cereal grains and/or Wild Oats.	Barley and/or Oats	Excluded from any other established grades on account of mixture of cereal grains and Wild Oats. Reasonably clean.	...

STATUTORY GRADES

STANDARD OF QUALITY				STANDARD OF CLEANNES	
FLAX SEED		Min. Wgt. Per Bus.	SOUNDNESS		
1 C.W.	51	Matured and sweet	May contain 12½% damaged seeds	Clean, commercially pure seed.	
2 C.W.	50	Matured and sweet.	May contain 25% damaged seeds	Clean, commercially pure seed.	
3 C.W.	47	May contain 5% heat damage		Clean, commercially pure seed.	
4 C.W.		May contain 10% heat damage		Clean, commercially pure seed.	

STANDARD OF QUALITY				STANDARD OF CLEANNES	
SUNFLOWER SEED	Min. Wgt. Per Bus.	MINIMUM PERCENTAGE VARIETY OF TYPE	SOUNDNESS	Maximum Percentage of Cracked and Hulled Seed	
1 C.W.	24	85	Well matured, sound, sweet, and uniform in size	2%	Commercially clean seed.
2 C.W.	21	60	Reasonably well matured; sweet; may contain frosted and weather—damaged seed.	5%	Commercially clean seed.
3 C.W.	21		May be slightly rancid and/or slightly musty	10%	Commercially clean seed.
1 Mixed C.W.	24	Mixed Varieties or Types	Well matured; sound; sweet.	2%	Commercially clean seed.
2 Mixed C.W.	21	Mixed Varieties or Types	Reasonably well matured; sweet; may contain frosted and weather—damaged seed.	5%	Commercially clean seed.
3 Mixed C.W.	21	Mixed Varieties or Types	May be slightly rancid and/or slightly musty	10%	Commercially clean seed.
Sample C.W.		Any Variety. Mixture of Varieties or Types	Any sunflower seed which does not meet the requirements for any of the other established grades	Commercially clean seed.

STANDARD OF QUALITY				Maximum Limits of Foreign Material		
BUCKWHEAT	Min. Wgt. Per Bus.	VARIETY	SOUNDNESS	Matter other than cereal grains	Other cereal grains	Total not to exceed
1 C.W.	50	Any variety equal to Japanese	Sound, cool, and sweet	Practically free	Practically free	Reasonably free
2 C.W.	48	Any variety equal to Japanese	Reasonably sound, cool, and sweet	Practically free	About 1%	About 1%
3 C.W.	45	Any variety equal to Japanese	Reasonably free from damage, cool, and sweet	About 1%	About 2½%	3%
4 C.W.	42	Any variety	Excluded from preceding grade on account of damage. May have a ground or grassy smell but not musty.	About 2%	5%	5%
Sample C.W.	Any buckwheat which does not meet the requirements for any of the other established grades.					

SUNFLOWER SEED

The name of the variety (Mennonite, Sunrise or other variety) shall be added to and form part of the grade name for the first three grades specified.

PEAS

Peas of any type or variety may be graded according to the above definitions and the commonly accepted commercial name or description or variety of such peas shall form part of the grade name, providing, however, that the use of the variety name in certifying to a grade of peas shall not imply any guarantee of varietal purity.

CORN

FLINT CORN—Flint corn shall be corn of any class which consists of 95 per cent of flint corn, and shall be graded according to grade requirements of the standards applicable to such corn if it were not flint corn, and the word "Flint" shall be added to the grade name following the words "Yellow" or "White" or "Mixed".

FLINT AND DENT CORN—Shall be corn of any class which consists of a mixture of the "Flint and Dent" varieties and which contains more than 5 per cent but less than 95 per cent of corn of any of the "Flint" varieties. It shall be graded according to the grade requirements of the Standard applicable to such corn if it were not "Flint and Dent Corn" and the words "Flint and Dent" shall be added to the grade name following the words "Yellow" or "White" or "Mixed."

COLOURS—A slight tinge of red on kernels otherwise yellow shall be classified as Yellow corn. A slight tinge of light straw color or of pink on kernels otherwise white shall be classified as White Corn. White capped yellow kernels shall be classified as Mixed Corn.

CRACKED CORN AND FOREIGN MATERIAL—Shall be kernels and pieces of kernels of corn and all matter other than corn which will pass through a No. 12 sieve, and all matter other than corn remaining on such sieve after screening.

NOTE—No. 12 SIEVE—A Metal Sieve perforated with round holes 12/64" in diameter.

STATUTORY GRADES

STANDARD OF QUALITY			Maximum Limits of Foreign Material		
CORN	Min. Wgt. Per Bus.	VARIETY OR TYPE	Minimum Percentage of variety or Type	SOUNDNESS	
				Heat Damaged	Total Damaged
1 C.W. Yellow	56	Yellow—Dent or semi-dent equal to Falconer	95	About 0.1%	3%
2 C.W. Yellow	54	Yellow—Dent or semi-dent equal to Falconer	95	About 0.2%	5%
3 C.W. Yellow	52	Yellow—Dent or semi-dent equal to Falconer	95	About 0.5%	7%
4 C.W. Yellow	50	Yellow—Dent or semi-dent equal to Falconer	95	About 1.0%	10%
5 C.W. Yellow	47	Yellow—Dent or semi-dent equal to Falconer	95	3.0%	15%
1 C.W. White	56	White	98	About 0.1%	3%
2 C.W. White	54	White	98	About 0.2%	5%
3 C.W. White	52	White	98	About 0.5%	7%
4 C.W. White	50	White	98	About 1.0%	10%
5 C.W. White	47	White	98	3.0%	15%
1 C.W. Mixed	56	Mixed as to colours		About 0.1%	3%
2 C.W. Mixed	54	Mixed as to colours		About 0.2%	5%
3 C.W. Mixed	52	Mixed as to colours		About 0.5%	7%
4 C.W. Mixed	50	Mixed as to colours		About 1.0%	10%
5 C.W. Mixed	47	Mixed as to colours		3.0%	15%
Any corn which does not meet the requirements for any of the other established grades.					
STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL		
PEAS (RECLEANED OR PROCESSED)	Min. Wgt. Per Bus.	Minimum Percentage of Variety or Type	Peas of Other Colour	Shrivelled	Cracked Seed Coats
1 C.W.	62	95	Good natural colour	About 0.5%	About 0.5%
2 C.W.	60	90	Slightly off colour	About 1%	About 0.5%
3 C.W.	58	85	Fair colour	3%	About 1.5%
Sample C.W.			Any peas which do not meet the requirements of other established grades.	7%	4.0%
STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL		
SOYBEANS (YELLOW, GREEN, BROWN, BLACK and MIXED)	Min. Wgt. Per Bus.	Minimum Percentage of Variety or Type	Peas of Other Colour	Shrivelled	Cracked Seed Coats
1 Canada	58		Cool, of natural odour, well screened, of good natural colour		
2 Canada	56		Cool, of natural odour, slightly stained		
3 Canada	54		Cool, of natural odour, may be stained		
4 Canada	51		Cool, may be badly stained, may be slightly frosted and immature		
Sample Canada			Shall be Soybeans which do not meet with the requirements of any of the grades from No. 1 to No. 4 inclusive, or which contain stones and/or cinders, or which are musty, sour, heated or heating, or which have any commercially objectionable foreign odour, or which are otherwise of distinctly low quality.		
STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL		
SOYBEANS (YELLOW, GREEN, BROWN, BLACK and MIXED)	Min. Wgt. Per Bus.	Minimum Percentage of Variety or Type	Peas of Other Colour	Shrivelled	Cracked Seed Coats
1 Canada	58		Cool, of natural odour, well screened, of good natural colour		
2 Canada	56		Cool, of natural odour, slightly stained		
3 Canada	54		Cool, of natural odour, may be stained		
4 Canada	51		Cool, may be badly stained, may be slightly frosted and immature		
Sample Canada			Shall be Soybeans which do not meet with the requirements of any of the grades from No. 1 to No. 4 inclusive, or which contain stones and/or cinders, or which are musty, sour, heated or heating, or which have any commercially objectionable foreign odour, or which are otherwise of distinctly low quality.		

NOTE—The maximum limits here given for "Other Colours" shall not apply to the grading of Mixed Soybeans.

MIXED WHEAT	COMPOSITION	Min Wgt Per Bus	STANDARD OF QUALITY
1 C.W	Mixtures of wheats of the Red Spring, White Spring and Winter Wheat classes, excluded from grades established for these classes on account of being so mixed —any one of such classes may predominate.	57	Reasonably well matured, may contain lightly frosted, immature or other light damage; may contain up to five per cent Durum Wheats; reasonably clean.
2 C.W	Mixtures of wheats of the Red Spring, White Spring and Winter Wheat classes, excluded from grades established for these classes on account of being so mixed —any one of such classes may predominate.	57	Excluded from the grade of No. 1 C.W. on account of immature and damaged kernels, may contain up to ten per cent of Durum wheats, reasonably clean.
3 C.W	Mixtures of wheats of the Red Spring or White Spring or Winter Wheat classes and wheats of the Durum wheat classes excluded from grades established for the classes of Red Spring, White Spring and Winter wheats on account of being so mixed; Spring and Winter wheat classes predominating.	57	Reasonably well matured; may contain lightly frosted, immature or other light damage; may contain up to ten per cent of Red Durum Wheat; reasonably clean.
4 C.W	Mixtures of wheats of the Red Spring or White Spring or Winter Wheat classes and wheats of the Durum classes excluded from grades established for the classes of Red Spring, White Spring and Winter wheats on account of being so mixed. Spring and Winter classes predominating.	58	Excluded from the grade of No. 3 C.W. on account of immature and damaged kernels; may contain up to ten per cent of Red Durum Wheat; reasonably clean.
5 C.W	Mixtures of Amber Durum Wheat and wheats of the Red Spring, White Spring or Winter Wheat classes excluded from grades established for the class of Amber Durum Wheat on account of being so mixed; Amber Durum Wheat predominating.	58	Reasonably well matured; may contain lightly frosted, immature or other light damage, may contain up to ten per cent of Red Durum Wheat; reasonably clean.
6 C.W	Mixtures of Amber Durum Wheat and wheats of the Red Spring, White Spring or Winter Wheat classes excluded from grades established for the class of Amber Durum Wheat on account of being so mixed; Amber Durum Wheat predominating.		Excluded from grade No. 5 C.W. on account of immature and damaged kernels, may contain up to ten per cent of Red Durum Wheat; reasonably clean.

COMMERCIAL GRADES — Effective August 1, 1947

CULTIVATED TAME MUSTARD (After Dockage Removed)	MIN WGT PER BUS.		Minimum Percentage Sound Cultivated Mustard	DAMAGED KERNELS		OTHER CLASSES		Foreign Material other than Dockage
	Yellow	Oriental or Brown		Heat Damaged	Total	Wild Mustard	Total	
Extra 1 C.W.	57	...	Tame Yellow Mustard Only					
1 C.W.	55	54	99%			1%		
2 C.W.	53	53	98%			1½%		1%
3 C.W.	51	51	97%	¼%		3%		1½%
Sample C.W.			95%	½%		5%		2%
Cultivated Tame Mixed Seed	Sample grade shall include all seed which does not come within the requirements of any other established grade.							
	Shall include any mixture of tame cultivated mustard seed not provided for in the Yellow, Oriental or Brown Mustard Seed Grades.							

RAPSEED

CANADA RAPSEED—Sound, cool and sweet. Commercially clean.

SAMPLE CANADA RAPSEED—Any rapeseed that is definitely unsound, heated or musty. Commercially clean.

OFF-GRADES

SPROUTED GRAIN

In grading sprouted grain, kernels that contain long sprouts are discounted more than sprung kernels. In the tables that follow, the tolerance of sprouted allowed in the different grades of grain will have to be reduced if the kernels have long sprouts.

SPROUTED RED SPRING WHEAT

1 Northern—Free. If containing up to $1\frac{1}{2}\%$ grade 2 Northern.

2 Northern—May contain $1\frac{1}{2}\%$.

1 Northern and 2 Northern—Over $1\frac{1}{2}\%$ up to 5% grade 3 Northern.

1 Northern and 2 Northern—If good colour and over 5% up to 20% grade Rejected 2 Northern Sprouted.

1 Northern and 2 Northern—Over 20% up to 25% grade Rejected 3 Northern Sprouted.

1 Northern and 2 Northern—Over 25% Rejected 4 Northern Sprouted.

3 Northern—May contain 5%, over 5% up to 8% grade 4 Northern. Over 8% up to 20% grade Rejected 3 Northern Sprouted. Over 20% to 25% grade Rejected 4 Northern Sprouted. Over 25% grade Rejected No. 5 Sprouted.

4 Northern—May contain 8%. Over 8% up to 25% grade Rejected 4 Northern Sprouted. Over 25% grade Rejected No. 5 Sprouted.

No. 5—May contain 8%. Over 8% up to 30% grade Rejected No. 5 Sprouted. Over 30% grade Feed Wheat.

No. 6—May contain 12%. Over 12% grade Feed Wheat.

SPROUTED GARNET

- 1 C.W. GARNET—Free of Sprouts. If containing up to $1\frac{1}{2}\%$ Grade 2 C.W.
- 2 C.W. GARNET—May contain $1\frac{1}{2}\%$.
- 1 C.W. and 2 C.W.—Over $1\frac{1}{2}\%$ up to 5% grade 3 C.W. GARNET.
- 1 C.W. and 2 C.W.—Over 5% up to 20% grade REJECTED 2 C.W. GARNET SPROUTED. Over 20% up to 25% grade REJECTED 3 C.W. GARNET SPROUTED. Over 25% grade REJECTED NO. 5 WHEAT SPROUTED.
- 3 C.W. GARNET—May contain 5%. Over 5% up to 8% grade NO. 5 WHEAT. Over 8% up to 25% grade REJECTED 3 C.W. GARNET SPROUTED. Over 25% grade REJECTED NO. 5 WHEAT SPROUTED.

SPROUTED DURUM

- 1 C.W. AMBER DURUM—Free. If containing up to $1\frac{1}{2}\%$ grade 2 C.W.
- 2 C.W. AMBER DURUM—May contain $1\frac{1}{2}\%$.
- 1 C.W. and 2 C.W.—Over $1\frac{1}{2}\%$ up to 5% grade 3 C.W.
- 1 C.W. and 2 C.W.—Over 5% up to 20% grade Rejected 2 C.W. Sprouted. Over 20% up to 25% grade Rejected 3 C.W. Sprouted. Over 25% grade Rejected 4 C.W. Sprouted.
- 3 C.W.—May contain 5%. Over 5% up to 8% grade 4 C.W. Over 8% up to 20% grade Rejected 3 C.W. Sprouted. Over 20% up to 25% grade Rejected 4 C.W. Sprouted. Over 25% grade Rejected 5 C.W. Sprouted.
- 4 C.W.—May contain 8%. Over 8% up to 25% grade Rejected 4 C.W. Sprouted. Over 25% grade Rejected 5 C.W. Sprouted.
- 5 C.W.—May contain 8%. Over 8% up to 30% grade Rejected 5 C.W. Sprouted. Over 30% grade Feed Wheat.
- 6 C.W.—May contain 12%. Over 12% grade Feed Wheat.

SPROUTED OATS

- 1 C.W.—Free of Sprouts.
- 2 C.W.—Free of Sprouts.
- Extra 3 C.W.—Free of Sprouts.
- 3 C.W.—May contain about 2 per cent sprouts.
- Extra 1 Feed — May contain up to 5 per cent sprouts.
- 1 Feed—May contain up to 15 per cent sprouts.
Over 15 per cent will grade 2 Feed if 28 lbs. per bushel. Less than 28 lbs. will be classed as 3 Feed.

SPROUTED BARLEY

- 1 C.W. Six-Row and 1 C.W. Two-Row—Free.
- 2 C.W. Six-Row, 2 C.W. Two-Row and 2 C.W. Yellow—Practically free.
- 3 C.W. Six-Row and 3 C.W. Yellow—May contain 3 per cent.
- 1 Feed—May contain 10 per cent.
- 2 Feed—May contain 20 per cent.
- 3 Feed—Over 20 per cent.

SPROUTED RYE

- 1 C.W.—Practically free from sprouts.
- 2 C.W.—May contain about 2 per cent.
- 3 C.W.—May contain up to 7 per cent.
- 4 C.W.—May contain over 7 per cent to 20 per cent.

Sample Rye Sprouted—Over 20 per cent.

TOUGH AND DAMP GRAIN

All grain that has an excessive moisture, being tough or damp or otherwise unfit for warehousing, shall be classed as "Tough" or "Damp" to the grade to which it otherwise belongs, in accordance with the percentages set out on the following table:

PERCENTAGE OF MOISTURE ALLOWED

	Straight Grade	Tough	Damp
Wheat	Up to 14.5%	14.6% to 17%	Over 17%
Dur.wheat	Up to 14.8%	14.9% to 17%	Over 17%
Oats	Up to 14.0%	14.1% to 17%	Over 17%
Barley	Up to 14.8%	14.9% to 17%	Over 17%
Rye	Up to 14.0%	14.1% to 17%	Over 17%
Flax	Up to 10.5%	10.6% to 13.5%	Over 13.5%
Buckwheat	Up to 14.8%	14.9% to 17%	Over 17%
Peas	Up to 16.0%	16.1% to 18%	Over 18%
Mustard	Up to 11.0%	11.1% to 16%	Over 16%

Mixed Grain....Moisture levels based on content of predominant grain.

Grade	Corn	Soybeans	Sunflower Seed	Rape Seed
ExtraDry	14% or less			
Straight	14.1% to 15.5%	14% or less	9.5% or less	10.5%
Tough	15.6% to 17.5%	14.1% to 16%	9.6% to 13.5%	or
Damp	17.6% to 21.0%	16.1% to 18%	13.6% to 17%	less
Moist	21.1% to 25.0%	18.1% to 20%	17.1% to 22%	
Wet	Over 25%	Over 20%	Over 22%	

SMUTTY GRAIN

All grain that has an unmistakable odor of smut, or which contains smut spores, balls, or portions of balls of smut, shall be classed as "Smutty" to the grade according to the grade requirements of such grain.

CONDITIONED GRAIN

Dried Grain—All grain inspected as Tough, or Damp and artificially dried may be graded as "Dried" to the grade to which it belongs, or as a straight grade when it complies in the judgment of the Inspector with the established Standard Sample for such grade.

Scoured or Washed Wheat—Wheat that has been subjected to scouring or washing may be graded as "Scoured" or "Washed" to the grade to which it belongs, or as a Straight grade when it complies in the judgment of the Inspector with the established Standard Sample for such grade.

REJECTED AND SAMPLE GRAINS

Rejected Wheat or Rye—All wheat or rye that is excluded from the recognized grades on account

of mixtures of cereal grains (barley, rye, etc.), up to 10 per cent of such mixtures, shall be classed as "Rejected" to the grade to which it belongs.

Wheat containing up to 10 per cent Ragweed or Tartarian Buckwheat will be graded "Rejected" to the grade to which it belongs. Over 10 per cent will grade "Sample Wheat and Ragweed" or "Sample Wheat and Tartarian Buckwheat".

All wheat or rye that is unsound, musty, sprouted, or containing up to 10% heated or 8% fireburnt, or mixed with cinders or gravel, or has a commercial objectionable foreign odor, such as Melilot (Sweet Clover) or coal oil, shall be graded "Rej." to the grade to which it belongs, with notations as to cause and condition, such as "Rej. 3 Nor. Mxd. Heated," "Rej. 3 Nor. Mxd. Gravel," or "Rej. 3 Nor. a/c Melilot odor."

Rejected Oats, Barley and Buckwheat—All oats, barley and buckwheat that contain heated in excess of that allowed in the Statutory grades or fireburnt, or mixture of gravel or cinders, etc., or have a commercial objectionable foreign odor, or are otherwise excluded from recognized grades, shall be classed as "Rejected" irrespective of grade, with notations as to cause and condition, such as "Oats Rejected Mixed Heated," or "Barley Rejected Mixed Fireburnt."

Sample Grade—All wheat, oats, barley, flax, rye and buckwheat that contain over 10 per cent of heated or over 8 per cent of fireburnt shall be graded "Sample" wheat, oats, barley, flax, rye or buckwheat, with notations as to cause and condition.

SEPARATIONS FOR CEREAL GRAINS

Dockage may be placed on the bulk of any grain in order that it shall be of the grade assigned, and if such dockage contains a certain proportion of cereal grains, separations shall be made in accordance with the following table of percentages, the term "C.C." being used to designate such separations to be made. The term C.C. meaning "Clean till Clean."

C.C.FOR FLAX

All grain containing $2\frac{1}{2}$ per cent of pure flax or 3 per cent or over of flax and broken grain will be graded C.C.

C.C. FOR OATS

All wheat, rye or flax containing $2\frac{1}{2}$ per cent of oats and over will be graded C.C.

C.C. FOR MIXED FEED OATS (WILD OATS)

All wheat containing $3\frac{1}{2}$ per cent of Mixed Feed Oats (Wild Oats) or over will be graded C.C.

C.C. FOR BROKEN WHEAT (OR BROKEN RYE)

All wheat or rye containing 5 per cent or over of broken grains and practically free from seeds and other foreign matter (about $\frac{1}{4}$ of 1 per cent) shall be graded C.C. for broken wheat or broken rye.

FLAX C.C.

Flax containing $2\frac{1}{2}$ per cent and over of cereal grain, or mixture of cereal grain, will be graded C.C.

EXCESS SEEDS

Dockage will be placed on all grains to remove EXCESS seeds ABOVE grade allowances.

DEGRADING FACTORS

The following are some of the degrading factors supplementary to the definitions of grades explained elsewhere in this bek.

Broken Kernels in Red Spring Wheat, After Dockage Removed:

- 1 Hard—Free.
- 1 Northern About 3%, clean to grade if 4%
- 2 Northern About 5%, clean to grade if 6%-7%
- 3 Northern and 4 Northern
About 8%, clean to grade if 9%-11%
- 12 per cent and over—Sample Red Spring Broken

Broken Kernels in Durum, after Dockage Removed:

- 1 C.W. About 3%, clean to grade if 4%
- 2 C.W. About 5%, clean to grade if 6%-7%
- 3 C.W. and 4 C.W.
About 8%, clean to grade if 9%-11%
- 12 per cent and over—Sample Amber Durum Broken.

Broken Kernels in Rye

- | | |
|-------------------|---|
| 1 C.W. | May contain up to 3 per cent. |
| 2 C.W. | May contain up to 5 per cent. |
| 3 C.W. and 4 C.W. | May contain up to 8 per cent.
clean to grade if 9%-11% |

12 per cent and over—**Sample Rye Broken.**

BROKEN GRAIN IN FLAX — No. 1 CANADA WESTERN, free; No. 2 CANADA WESTERN, $\frac{1}{4}$ of 1%; Nos. 3 and 4 CANADA WESTERN, $\frac{3}{4}$ of 1%; Over $\frac{3}{4}$ of 1% **SAMPLE FLAX AND BROKEN GRAINS.**

Peeled and Broken Barley in Barley:

- | | |
|----------------|-------------|
| 1 C.W. Six-Row | 3 per cent. |
| 2 C.W. Six-Row | 5 per cent. |
| 3 C.W. Six-Row | 5 per cent. |
| 2 C.W. Yellow | 5 per cent. |
| 3 C.W. Yellow | 5 per cent. |
| 1 C.W. Two-Row | 3 per cent. |
| 2 C.W. Two-Row | 5 per cent. |

Ragweed in Durum:

- | | |
|--------|------------------|
| 1 C.W. | Free |
| 2 C.W. | About 20 kernels |
| 3 C.W. | About 50 kernels |
| 4 C.W. | About 75 kernels |

Over 75 kernels—up to about 10 per cent.—**Rejected**

Over 10 per cent.—**Sample Amber Durum and Ragweed**

Ragweed or Tartarian Buckwheat in Red Spring Wheat:

- | | |
|------------|------------------|
| 1 Hard | Free |
| 1 Northern | About 5 Kernels |
| 2 Northern | About 20 Kernels |
| 3 Northern | About 50 Kernels |
| 4 Northern | About 75 Kernels |

Over 75 kernels—up to about 10 per cent.—**Rejected**

Over 10 per cent.—**Sample Red Spring Wheat and Ragweed or Tartarian Buckwheat.**

Ragweed, or Tartarian Buckwheat, in Oats:

1 C.W., 2 C.W. and Extra 3 C.W.	} Practically Free.
3 C.W. and Extra 1 Feed	
1 Feed	About 1 per cent
2 and 3 Feed	2 per cent
	3 per cent

Over 3 per cent to 10 per cent—**Rejected Oats.**
Over 10 per cent—**Sample Oats and Ragweed or
Tartarian Buckwheat.**

Ragweed, or Tartarian Buckwheat, in Barley:

1 C.W. and 2 C.W. Six-Row and 1 C.W. and 2 C.W. Two-Row	} Practically Free
3 C.W. Six-Row	
1 Feed	About 1 per cent
2 Feed	About 2 per cent
3 Feed	} 3 per cent

Over 3 per cent to 10 per cent—**Rejected Barley.**

Over 10 per cent—**Sample Barley and Ragweed
or Tartarian Buckwheat**

Weed Stain

1 Hard	Free
1 Northern	Practically Free
2 Northern	$\frac{1}{4}$ of 1%
3 Northern	1%
4 Northern	3%

Thin, Rusted or Shrunken Wheat allowed in Spring Wheat:

4 Northern	About 5 per cent
No. 5 Wheat	About 8 per cent
No. 6 Wheat	About 11 per cent

Admixtures of Garnet in Red Spring

- 1 Hard—Free.
- 1 Northern—May contain up to 1%.
- 2 Northern—May contain up to 3%.
- 3 Northern—May contain up to 10%
- 4 Northern—May contain up to 10%.

Blackpoint allowed in Red Spring or Durum:

1 C.W.	About 5 per cent
2 C.W.	About 10 per cent
3 C.W.	About 15 per cent

Hulled Oats in Oats

1 C.W.	3 per cent
2 C.W.	8 per cent
Extra 3 C.W.	8 per cent
3 C.W.	13 per cent
Extra 1 Feed	15 per cent
Lower Grades	30 per cent

Wild Oats in Barley

Wild Oats may be removed as dockage, as follows:

In 1 C.W. and 2 C.W. 6-Row up to about 4%.

In 1 C.W. and 2 C.W. 2-Row up to about 4%.

In 3 C.W. 6-Row up to about 5%.

When over 5% will grade as 2 or 3 Feed Barley according to percentage tolerance of wild oats specified in the grade.

NOTE:—Barley of Malting quality containing over 5% and up to 10% of Wild Oats will grade 2 Feed Barley. Over 10% and up to 20% of Wild Oats will grade 3 Feed Barley. ..

Wild Oats will not be removed from 1, 2 or 3 Feed Barley grades as dockage.

Feed Grades of Barley will be graded down according to the percentage of wild oats or other grains in same.

Large seeds in excess of the percentage tolerance specified in the grade will be removed as dockage where possible.

Flax Containing False Flax

1 C.W.	May contain 5%.
2 C.W.	May contain 10%.
3 C.W.	May contain 15%.
4 C.W.	May contain 25%.

Over 25%—Sample Flax and False Flax.

Flax Seed after Dockage has been removed containing other seeds. Lady's Thumb 1% or over, that cannot be removed in cleaning by means of

the Flax Sieves will be graded Sample Flax and Dockage will be placed on for removable material. Less than 1% (Lady's Thumb) add to the Dockage.

ERGOT MIXTURES IN GRAIN

WHEAT—No. 1 MANITOBA HARD, NOS. 1, 2, 3 and 4 MANITOBA NORTHERN may contain 1/10 of 1%. If over 1/10 of 1%, up to 10%, grade as: Rejected, to the grade. Nos. 5 and 6 WHEAT and Feed Wheat may contain 1/3 of 1%. If over 1/3 of 1%, up to 10%, grade as: Rejected, to the grade. The above percentages are allowed in the corresponding grades of all varieties of wheat.

BARLEY & OATS—All grades of barley and oats may contain up to 1/3 of 1% of Ergot. Over 1/3 of 1% up to 10%, make "Rejected on account of Ergot."

NOTES ON MAXIMUM TARIFF OF CHARGES IN LICENSED COUNTRY ELEVATORS

(Approved by the Board of Grain Commissioners)

In Effect August 1, 1948

Under the provisions of the Canada Grain Act, 1930, as amended, and subject to the capacity of the elevator and the nature of the construction, grain shall be received into licensed country elevators upon the following conditions, and subject to charges not in excess of those specified herein.

SPECIAL BIN GRAIN

Receiving, elevating, spouting, storing and insurance against fire for the first fifteen days, and delivering into railway cars or other conveyances; no elevator shall charge more than four-and-one-half cents (4½c) per bushel for flax, and two and-one-half cents, (2½c) per bushel for wheat, barley, rye and corn, one and seven-eighths cents (1⅞c) per bushel for oats, and six cents (6c) per hundred pounds for sunflower seed.

"GRADED STORAGE AND SUBJECT TO GRADE AND DOCKAGE GRAIN"

Receiving, elevating, spouting, storing and insurance against fire for the first fifteen days, and delivering into railway cars or other conveyances;

no elevator shall charge more than four and one half cents ($4\frac{1}{2}c$) per bushel for flax, two and one-half cents ($2\frac{1}{2}c$) per bushel for wheat, barley, rye and corn, and one and seven-eighths cents ($1\frac{7}{8}c$) per bushel for oats.

STORAGE

Including insurance against fire, for each succeeding day or part thereof after the first fifteenth (15) days shall not exceed one-twenty-fifth of one cent ($1/25c$) per bushel, for all grain, except Sunflower Seed which shall not exceed one fifteenth of one cent ($1/15c$) per hundred (100) pounds.

CLEANING

The rate for cleaning grain shall be mutually agreed upon by the elevator operator and the owner of the grain according to the nature of its dockage, but in no case shall the rate exceed a maximum of two cents (2c) per bushel.

SHRINKAGE

No elevator shall take more than the allowance for shrinkage, waste in handling, storing and transmitting the grain to a terminal than the weight in pounds set forth in the shrinkage table which forms part of the tariff for Country Elevators.

All shrinkage on tough and damp or wet grain shall not be more than double the allowance as set forth in the aforesaid shrinkage table.

Such shrinkage table shall be placed conspicuously, in all licensed Country Elevators for free inspection of the public.

DOCKAGE ON CASH OR STORED GRAIN

No elevator shall take a greater dockage than that shown by a proper test over a number ten sieve, except where the grains contain foreign grain or seeds which cannot be taken out by a number ten sieve.

Every elevator must be equipped with the necessary sieve and scales for making proper tests, and the elevator operator must make the test in the presence of the owner of the grain when requested.

GENERAL

When tough, damp or wet grain is taken into store it shall be at the owner's risk, and the elevator operator shall have the right to ship it immediately to a terminal elevator for treatment.

All tough, damp or wet grain, containing an excessive amount of snow and ice, may be handled subject to agreement between the owner of the grain and the operator.

NOTES ON MAXIMUM TARIFF OF PUBLIC TERMINAL ELEVATORS CHARGES AT FORT WILLIAM/PORT ARTHUR, WINNIPEG AND WEST OF CALGARY

(Approved by the Board of Grain Commissioners)

Effective August 1, 1948

Subject to the capacity of the elevator and the nature of its equipment, shipments will be received and shipped upon the following terms and conditions and under the provisions of the Canada Grain Act, 1930. Amended 1932-33-34-38-39-44-45-46-47-48.

"ELEVATION CHARGES"

On straight grade, tough, damp or wet grain, not otherwise specified, receiving, elevating, shipping, storing and insurance against fire for the first ten days; Flax, $3\frac{1}{4}$ cents per bushel; Rye $2\frac{1}{4}$ cents per bushel; Wheat, Oats, Barley and Corn, $1\frac{7}{8}$ cents per bushel; and Sunflower Seed, 4 cents per hundred (100) pounds.

Except that all grain shipped from terminal elevators in railway cars shall be subject to an additional charge of one-half of one cent ($\frac{1}{2}$ c) per bushel.

All tough, damp, wet, condemned, heating, heated or fire-burnt grain may always be refused. If received and stored it shall be at the owner's risk of deterioration. All damp grain and tough flax will be dried without notice as soon after unloading as facilities will permit.

On mixed grains handled as mixtures, receiving, elevating, shipping, storing and insurance against fire for the first ten days, three and one-quarter cents ($3\frac{1}{4}$ c) per hundred pounds.

On screenings, receiving, elevating, shipping, storing and insurance against fire for the first ten days, four and one-half cents ($4\frac{1}{2}c$) per hundred pounds.

STORAGE CHARGES

On Straight Grade and Tough Grain, not otherwise specified, including insurance against fire for each succeeding day or part thereof after the first ten days, **one twenty-fifth of one cent ($1/25c$) per bushel** for all grain, except Sunflower Seed which shall not exceed **one fifteenth of one cent ($1/15c$) per hundred (100) pounds.**

On Mixed Grain handled as mixtures, storage, including insurance against fire for each succeeding day or part thereof, after the first ten days, **two-thirtieths of one cent ($2/30c$) per hundred pounds.**

On Screenings, storage including insurance against fire for each succeeding day or part thereof, after the first ten days, **one-tenth of one cent ($1/10c$) per hundred pounds.**

CLEANING CHARGES

(1) For removal of dockage: (other than grain for which a return is made).

(a) **Wheat, Oats** — containing less than 3% dockage—No charge; containing from 3% to 5% dockage—One-half cent ($\frac{1}{2}c$) per bushel; containing from $5\frac{1}{2}\%$ up to 10% dockage—One cent (1c.) per bushel; containing more than 10% dockage—One and one half cents ($1\frac{1}{2}c$) per bushel.

(b) **Flax** — Containing less than $5\frac{1}{2}\%$ dockage—No charge; containing from $5\frac{1}{2}\%$ to 10% dockage—Two cents (2c) per bushel; containing more than 10% dockage—Two and one-half cents ($2\frac{1}{2}c$) per bushel.

(c) **Rye**—Containing less than 3%, No charge; containing from 3 to 5% dockage; 1c per bushel; containing from $5\frac{1}{2}$ to 10% dockage,— $1\frac{1}{2}$ cents per bushel; containing more than 10% dockage, 2 cents per bushel.

(d) **Barley**—Containing less than $5\frac{1}{2}\%$ dockage—one-half cent ($\frac{1}{2}c$) per bushel; containing

from 5½% to 10% dockage—one cent (1c) per bushel; containing more than 10% dockage—one and one-half cents (1½c) per bushel.

(e) **Sunflower Seed**—Containing less than 5½% dockage — no charge; containing from 5½ to 10% dockage — three cents (3c) per hundred (100) pounds; containing more than 10% dockage—four cents (4c) per hundred (100) pounds.

(2) **For removal of other grain**, except mixed feed oats, from grain carrying a return for such other grain (c.c. cars) in addition to charges, if any, as herein provided.

All Grains: Containing not more than 10% other grain—Three cents (3c) per hundred pounds; containing more than 10% but not more than 15% other grain — Four cents (4c) per hundred pounds; containing more than 15% of other grain — Five cents (5c) per hundred pounds.

(3) **For removal of mixed feed oats** from wheat carrying a return of mixed feed oats. One-half cent (½c) per bushel in addition to charges as herein provided.

SPECIAL SEPARATIONS

Separations of mixed grain or straight grade grain to improve grade, computed on gross weight of car, five cents (5c) per one hundred pounds.

On all such separations a deduction of one percent (1%) of the gross weight will be made to cover invisible loss in separation.

RETURNS FOR DOCKAGE

Wheat: On shipments assessed dockage of three percent (3%) or more a return for all such screenings, less one-half of one percent of the gross weight of the shipment for waste shall be made to the shipper. Separate returns shall be made for other grain or mixed feed oats (wild oats) in shipments designated "Clean till Clean" on account of containing two and one-half percent (2½%) or more oats; three percent (3%) or more flax; three and one-half percent (3½%) or more mixed feed oats, or five percent (5%) or more broken wheat. On shipments which are designated "Clean till Clean" for mixed feed oats (wild oats) a deduction of one-half of one percent of the gross weight of

the shipment for waste shall be deducted from the return for the mixed feed oats.

Oats: On shipments assessed dockage of three percent (3%) or more a return for all such screenings, less one-half of one percent of the gross weight of the shipment for waste shall be made to the shipper. A separate return shall be made for flax in shipments designated "Clean till Clean" on account of containing three percent (3%) or more of flax.

Barley: On shipments assessed dockage a return for all such screenings less one-half of one percent of the gross weight of the shipment for waste shall be made to the shipper. A separate return shall be made for flax in shipments designated "Clean till Clean" on account of containing three percent (3%) or more of flax.

Rye: On shipments assessed dockage of three percent (3%) or more a return for all such screenings less one percent (1%) of the gross weight of the shipment for waste shall be made to the shipper. Separate return shall be made for other grain in shipments designated "Clean till Clean" on account of containing two and one-half percent (2½%) or more oats; three percent (3%) or more flax or five percent (5%) or more broken rye.

Flax and Sunflower Seed: On shipments assessed dockage of five and one-half percent (5½%) or more a return for all such screenings less two percent (2%) for flax, less 1% for Sunflowers; of the gross weight of the shipment for waste shall be made to the shipper.

Separate returns shall be made for other grain or mixtures of grains in shipments designated "Clean till Clean" on account of containing two and one-half percent (2½%) or more of other grain or mixtures of grains.

Quality of Screenings: The holder of Warehouse Receipts or shut-outs covering dockage shall be entitled to receive the average quality of screenings in accordance with sample tests which shall be made in such manner as shall be determined by the Inspection Branch.

Disposition of Screenings: If instructions for the disposition of screenings covered by outstanding returns are not received within thirty days from the date of unloading, such screenings may be disposed of for account of whom it may concern.

DRYING CHARGES

On Tough Grain, three cents (3c) per bushel.

On Damp or Wet Grain, five cents (5c) per bushel.

Sunflower Seed: Tough, ten cents (10c) per hundred (100) pounds; damp, fifteen cents (15c) per hundred (100) pounds; moist and wet, twenty cents (20c) per hundred (100) pounds.

ALLOWANCE FOR INVISIBLE LOSS AND SHRINKAGE ON ALL CARS

Wheat, 30 pounds per car; Oats, Barley, Mixed Grain and Sunflower Seed, 50 pounds per car; Rye 70 lbs. per car; Flax 120 lbs. per car; and Corn, 56 pounds per car.

BULKHEADS

On Bulkheads for their removal and other additional expense in handling and unloading car, **five dollars (\$5.00) per bulkhead.**

UNLOADING SACKED GRAIN

A charge of five cents (5c) per sack will be made for unloading all sacked grain.

PREPARING CARS FOR LOADING

When PAPER is used in preparing cars, there will be a charge of **six dollars (\$6.00) for each car.**

UNSPECIFIED GRAIN

Salvaged or other unspecified grain will only be received, stored and treated subject to special charges to be agreed upon at the time subject to the approval of the Board of Grain Commissioners.

Tariffs of charges lower than the above maximum tariff may be filed with the Board by the Manager of any Terminal Elevator, but such lower charges shall apply to all grain received in such elevator during the crop year for which such tariffs or charges are filed.

NOTE RE ALL CHARGES

All charges for cleaning, drying or other treatment will be computed on gross weights—for elevation and storage on net weights. These accrued charges, together with freight charges, are due the elevator company when the car is out-turned and warehouse receipt issued. All such charges are paid by the elevator company, to whom the car is consigned. The terminal elevator tariff allows 10 days' free storage included in the elevator fee. Of this storage period, 5 days are allowed the shipper from country point and five days are allowed the dealer who forwards the grain from the terminal and who actually pays the terminal elevation charge.

NOTES RE VANCOUVER TERMINAL TARIFF

Same as the Fort William-Port Arthur Terminal Tariff. A section is provided specifying charges for SACKING GRAIN, as follows: On sacks not exceeding 125 lbs., 1½c per bushel; 160 lbs., 2c per bushel; 220 lbs., 2½c per bushel.

Double sacking 1c per sack in addition to above.

For sacking Screenings 10c per sack. This will only be done when conditions warrant it at the discretion of the Licensee.

Sacks and twine to be furnished by shipper. In case of machine sewing the charge is ½c per sack for twine.

A charge of ½c per sack will be made for stencelling.

NOTES ON CHURCHILL TERMINAL TARIFF

Same as the Fort William-Port Arthur Terminal Tariff, except as follows:

Period of free storage: EIGHT DAYS,

Storage charges: Sept. 1 to Oct. 8—1/25 of 1c per bus.

Oct. 9 to July 31—1/90 of 1c per bus.

Aug. 1 to Aug. 31—1/25 of 1c per bus.

Except that on grain in store on the 9th day of October in any year, and grain delivered between the 9th of October and the 30th of November in the same year, both dates inclusive, the total storage charge up to and including the 31st day of August in the following year shall be 1c per bushel.

NOTES RE INTERIOR TERMINAL TARIFF

Same as the Fort William-Port Arthur Terminal Tariff, except that elevation charges are as follows:

Receiving from wagons or trucks, elevating, cleaning, shipping, storing and insurance against fire for the first fifteen days; all grain, one and one-half cents (1½c) per bushel.

Receiving from railway cars, elevating, cleaning, shipping, storing and insurance against fire for the first fifteen days: wheat, oats, barley, rye and corn 1c per bushel and flax 2c per bushel.

Storage charges on Straight Grade and Tough Grain, $\frac{1}{30}$ of one cent per bushel; on Mixed Grain, $\frac{2}{30}$ of 1c per hundred (100) pounds.

Sacking grain and loading to cars or other vehicles will be subject to rate agreed on.

THE SEEDS ACT, 1937

The seed grade regulations are administered by the Production Service, Plant Products Division, of the Dominion Department of Agriculture. The Grades of various kinds and classes of seed are described in detail in "The Seeds Act", 1937. A copy of this Act containing a list of the prohibited, primary, and secondary noxious weed seeds, may be secured from any district office of the Plant Products Division, Winnipeg, Saskatoon, or Calgary; or direct from the Dominion Department of Agriculture, Ottawa.

DEFINITIONS

Registered Seed has a recorded and approved ancestry and is grown from Elite stocks or Registered seed. It is the highest grade of seed recognized by Statute in Canada. The first crop produced from Elite seed of a cereal crop is known as Registered First Generation and each succeeding crop will be known as Registered, so long as it meets the standards required. Such requirements are under the supervision of the Canadian Seed Growers' Association. Only those varieties of outstanding merit, which have been approved by the Canadian Seed Growers' Association, are eligible for registration. Registered crops must be of a very high standard of purity. In order to pass field inspection the field must not contain more than one major off-type plant in ten thousand plants.

Certified Seed of registerable varieties must now be traceable to registered stocks. Its production is under the control of the Production Service, Plant Products Division, of the Dominion Department of Agriculture. It differs from reg-

istered seed only in that the purity standards as determined by field and seed inspection are not as high as those required for registration. It may contain not more than one off-type in one thousand plants.

Commercial Seed is not inspected as a standing crop and, therefore, there is no guarantee as to its purity of variety. Samples, however, must be submitted for testing to the Plant Products Division, Dominion Department of Agriculture, Winnipeg, Saskatoon, or Calgary, to ensure certain standards in regard to germination and freedom from weed seeds.

CLASSIFICATION OF WEEDS

Prohibited Noxious. Dodder, Field Bindweed, Hoary Cress, Leafy Spurge, Russian Knapweed.

Primary Noxious. Bladder Campion, Couch Grass, Darnel, Forked Catchfly, Great Ragweed, Johnson Grass, Ox-eye Daisy, Perennial Sowthistle, Red Cockle, White Cockle, Wild Mustard, Wild Radish.

Secondary Noxious. Ball Mustard, Blue Weed, Canada Thistle, Chickory, Common Ragweed, Cow Cockle, Dock, Dog Mustard, Downy Brome, False Flax, False Ragweed, Field Peppergrass, Flixweed, Hares Ear Mustard, Hoary Alyssum, Night-flowering Catchfly, Poverty Weed, Perennial Ragweed, Purple Cockle, Ribgrass, Russian Thistle, Stickseed, Stinkweed, Toad Flax, Tumbling Mustard, Wild Carrot, Wild Oat, Winter Cress, Yellow Cress.

Producers are referred to the Seeds Act for information on the seed grade standards for Pasture, Lawn and Turf Grass mixtures, for Vegetables and other Crops not mentioned here.

SEED GRADE STANDARDS

1	2	3	4	5	6	7
WHEAT	Maximum number of seeds per pound except where otherwise stated.					Minimum Percentage Germination
	Noxious Weed Seeds		Total Weed Seeds	Other Crop Seeds	Other distinguishable varieties	
	Primary	Primary plus Secondary				
Registered No. 1	0	0	3	0.5	1	85
Registered No. 2	0	1 per bu.	10	1	2	75
Registered No. 3	0	1 per peck.	10	2	2	65
Certified No. 1	0	1 per peck.	10	1	5	85
Certified No. 2	0	2 per peck	15	2	10	75
No. 1 Seed	0	1	25	10	20	85
No. 2 Seed	1	3	50	25	30	75
No. 3 Seed	3	15	100	50	60	65
BARLEY, OATS, RYE	•	•	•	•	•	•
Registered No. 1	0	0	3	1	2	85
Registered No. 2	0	1 per bus.	10	2	3	75
Registered No. 3	0	1 per peck	10	2	3	65
Certified No. 1	0	3 per peck	10	5	5	85
Certified No. 2	0	6 per peck	20	10	10	75
No. 1 Seed	0	1(a)	25	100	25	85
No. 2 Seed	1	3(b)	50	150	50	75
No. 3 Seed	3	15	100	250	100	65

NOTE — 1 There may be allowed under Column 3 (a) one additional wild oat in No. 1 Seed Oats
(b) six additional wild oats in No. 2 Seed

2. Oats graded under this table may contain 6 additional False Wild Oats per pound in Registered No. 1 and 10 additional False Wild Oats per pound in all other grades.

3. Wheat, Barley, Oats or Rye graded or sold under these tables in Manitoba, Saskatchewan and Alberta shall be free from Tartarian Buckwheat (*Fagopyrum tartarium* L.)

* Same heading as Wheat.

SEED GRADE STANDARDS (Cont'd)

1	2	3	4	5	6	7	8
FLAX (Oilseed & Fibre)	Maximum number of seeds per ounce					Minimum Percentage	
	Noxious Weed Seeds		Total Weed Seeds	Other Crop Seeds	Other Distinguishable varieties	Germination	Pure Seed
	Primary	Primary plus Secondary					
Registered No. 1	0	1	5	1	1	85	98
Registered No. 2	0	2	10	2	2	75	97
Registered No. 3	0	2	10	5	3	65	95
Certified No. 1	0	2	10	5	3	85	98
Certified No. 2	0	3	15	10	6	75	95
No. 1 Seed	0	2	20	10	5	85	97
No. 2 Seed	1	5	35	15	25	75	95
No. 3 Seed	3	15	50	25	75	65	95
BEANS, PEAS, SWEET CORN, SOYBEANS, SUNFLOWERS	Maximum number of seeds per pound					*	
	*	*	*	*	*		
Registered No. 1	0	0	0	0		85	
Registered No. 2	0	0	0	0	2	75	
Registered No. 3	0	0	0	0	2	65	
Certified No. 1	0	0	0	3	3	85	
Certified No. 2	0	0	0	5	5	75	
No. 1 Seed	0	0	1	3	15	85	
No. 2 Seed	0	1	5	5	30	75	
No. 3 Seed	1	5	10	10	50	65	

* Same heading as Flax.

SEED GRADE STANDARDS (Cont'd)

1	2	3	4	5	6	7
GRASSES BROME, CRESTED WHEAT, MEADOW FESCUE, REED CANARY, SLENDER WHEAT	Maximum number of seeds per ounce except where otherwise stated					Minimum Percentage
	Noxious Weed Seeds		Total Weed Seeds	Sweet Clover	Other Crop Seeds	Pure Living Seed
	Primary	Primary plus Secondary				
Registered No. 1	0	1	25	1	10	75
Registered No. 2	0	2	50	2	50	65
Registered No. 3	0	5	100	5	50	55
Certified No. 1	0	2	50	2	100	75
Certified No. 2	0	5	100	5	150	65
No. 1 Seed	0	5	100	25	2% by weight	75
No. 2 Seed	5	20	200	50	3% by weight	65
No. 3 Seed	10	50	300	Less than 1% by weight	Less than 5% by weight	55
ALFALFA, SWEET CLOVER, MILLETS, SUNDAN GRASS	*	*		*	*	Germination
Registered No. 1	0	1	25	1	10	90
Registered No. 2	0	2	50	1	50	80
Registered No. 3	0	5	100	1	50	70
Certified No. 1	0	2	50	2	50	80
Certified No. 2	0	5	100	5	75	70
No. 1 Seed	0	5	100	30	2% by weight	80
No. 2 Seed	5	15	200	60	3% by weight	70
No. 3 Seed	10	50	300	Less than 1% by weight	Less than 5% by weight.	60

NOTE 1 Total weed seeds under column 4 shall include the Sweet Clover seeds under column 5
2 Column 5 does not apply to Sweet Clover seed graded under this table

* Same heading as Grasses

SEED GRADE STANDARDS

SEED GRADE STANDARDS (Cont'd)

1	2	3	4	5	6	7
RED AND ALSIKE CLOVERS	Maximum number of seeds per ounce except where otherwise stated.					Minimum Percentage Germination
	Noxious Weed Seeds		Total Weed Seeds	Sweet Clover	Other Crop Seeds	
	Primary	Primary plus Secondary				
Registered No. 1.	0	1	50	1	20	80
Registered No. 2	0	2	75	1	100	70
Registered No. 3	0	5	100	1	100	60
Certified No. 1	0	2	75	2	100	80
Certified No. 2	0	5	100	5	150	70
No. 1 Seed	0	5	100	50	2% by weight	80
No. 2 Seed	5	15	200	100	3% by weight	70
No. 3 Seed	10	50	300	Less than 1% by weight	Less than 5% by weight	60

NOTE—1 Total weed seeds under column 4 shall include the Sweet Clover seeds under column 5

2. An additional 100 seeds of green foxtail and black medick in No. 2 Seed and No. 3 Seed may be allowed under Column 4.
3. Alsike clover may contain 10, 30, and 75 seeds respectively in No. 1 Seed, No. 2 Seed and No. 3 Seed under Column 3.
4. Total weed seeds in Alsike Clover under Column 4 shall be 25 seeds less per ounce in Registered No. 1, Registered No. 2, and Certified No. 1

SEED GRADE STANDARDS (Cont'd)

1	2	3	4	5	6	7	8
FIELD CORN		Maximum number per lb.			Maximum Percentage		Minimum Percent- age Germin- ation
Class	Grade Name	Weed Seeds	Other Crop Seeds	Kernels of other varieties	Mois- ture	By count Kernels which do not con- form to the size and shape marked (e.g. large, flat)	
Hybrids, Varietal Crosses & Open Pollinated Varieties	Registered No. 1	0	0	1 in 3	13	4	90
	Registered No. 2	0	0	1 in 2	13	4	80
	Registered No. 3	0	0	1 in 1	13	4	70
Open Pollinated Varieties	Certified No. 1	0	0	4 in 1	13	5	90
	Certified No. 2	0	0	8 in 1	13	5	80
Imported Hybrids & Varietal Crosses	No. 1 Seed	0	0	1 in 3	13	4	90
	No. 2 Seed	0	0	1 in 2	13	4	80
	No. 3 Seed	0	0	1 in 1	13	4	70
General Seeds of Commerce	No. 1 Seed	0	0	4 in 1	14	5	85
	No. 2 Seed	0	0	8 in 1	14	5	75
	No. 3 Seed	0	0	12 in 1	14	5	65

1	2	3	4	5
DUTCH SETS AND MULTIPLIER ONIONS	Size Square Mesh Screen	Variety and Colour	General Quality	Damage
No. 1 Seed	Screen Diameter $\frac{3}{8}$ " to $\frac{1}{2}$ "	Not less than 98% one variety and colour	Mature, well cured and sound. Reasonably dry and free from tops, dirt, leaves or other foreign matter	Sound and free from decay. Reasonably free from insects, disease, molds, mechanical, frost or other damage, moisture and sprouts
No. 2 Seed	Diameter $\frac{3}{8}$ " to 1"	Not less than 95% one variety and colour	Mature, well cured and sound. Reasonably dry and free from tops, dirt, leaves or other foreign matter	Sound and free from decay. Reasonably free from insects, disease, molds, mechanical, frost or other damage, moisture, not more than 5% sprouts.
No. 3 Seed	Diameter Pinhead Size to 1"	No Variety or colour Standard	Not more than 10% of immature bulbs. Reasonably dry and free from tops, dirt, leaves or other foreign matter	Reasonably sound and reasonably free from insects, disease, molds or decay, and not more than 5% of soft, or 10% of sprouted bulbs.

NOTE — The size standards under Column 2 shall not apply to Multiplier Onions

BEEF GRADES

The Beef grading regulations are administered by the Livestock and Livestock Products Division, Marketing Service, Dominion Department of Agriculture.

GRADE A—(Choice—Red Brand); A choice beef carcass should have excellent conformation, finish and quality, except that in the case of a carcass in the fed calf class, allowance may be made in regard to the degree of finish required. It should be relatively short and blocky and should be heavily and uniformly fleshed throughout. Rounds, loins and ribs should be very well developed, chucks and plates should be very thick and heavily fleshed. The neck should be short and well filled. Shanks should be short and well muscled.

The flesh should be firm, velvety, fine grained and of an attractive light or cherry red colour.

The cartilages on the chine and breast bones should be pearly white, but may be slightly ossified. The bones may be soft and red, or slightly hardened, and of grayish white colour. The exterior surface of the carcass should be covered with firm fat, white or slightly high in colour. This fat should, as a rule, be smooth, but may be slightly wavy. An excess proportion of fat to lean debars a carcass from the grade. Each carcass should have a cold weight of not less than 300 lbs.

GRADE B — (Good—Blue Brand); Good beef carcasses should have good conformation, finish and quality. Rounds, loins and ribs should be reasonably full. Chucks and plates should be

moderately thick. The neck should be reasonably short and thick.

The flesh should be moderately firm but a slight softness is permissible. The colour may range from a light cherry red to a slightly darker red but should not be excessively dark. The cartilages on the chine and breast bones should be pearly white but may be slightly ossified in heavier carcasses, and the bones should be soft and red, or slightly hardened and of a grayish white colour.

The fat covering should extend well over the exterior surfaces but may be somewhat lacking on the neck and lower parts of the rounds, shoulders and shanks. The hips and shoulder points may be slightly visible. The fat covering should be reasonably firm, smooth and white but may be somewhat soft or have a yellowish tinge.

Carcasses of fed calves require a lesser degree of finish. An excess of fat to lean debars a carcass from this grade. Each carcass should have a cold weight of not less than 300 lbs.

GRADE C—(Steers, heifers and cows); Carcasses shall have indications of youth as shown by cartilage on the tips of the vertebrae and on the sternum.

Carcasses of steers and heifers should be relatively long in proportion to width, and slightly angular; hip and shoulder joints noticeable but not prominent; ribs, loins and rounds moderately thick; the fat covering extended well over most of the exterior surface, but may be rough, wavy or wasty at the hook-bones and tail end; fat should be firm but may have a yellowish tinge; flesh moderately firm but may be slightly soft.

Carcasses of cows should have beef type conformation, good finish, and quality; rounds thick, loins may be somewhat flat; rib, chuck, plate and brisket moderately thick; hip and shoulder joints slightly prominent but well covered; exterior fat extending well over the carcass without excessive waste or patchiness; fat firm, creamy to yellowish in color; flesh firm, fine-grained and of good color.

GRADE D.

Class 1—Steers and heifers not eligible for Grade C.

Class 2—Cows not eligible for Grade C.

Class 3—Cows not eligible for Class 2, but above "Canner and Cutter" quality.

GRADE M. (Manufacturing)

Carcasses of steers, heifers and cows of quality below requirements for Grade D.

GRADE S.

Stags and Bulls.

GRADES FOR HOG CARCASSES

The hog grading regulations are administered by the Live stock and Livestock Products Division of the Marketing Service, Dominion Department of Agriculture.

GRADE A

Weight	140 - 170 lb.
Minimum length	29"
Maximum fat shoulder ..	2"
Maximum fat loin	1½"

Grade	B1	B2	B3
Weight	135-175 lb.	125-134 lb.	176-185 lb.
Min. length	28" to 29"	27"	30"
according to Wt.			
Max. fat shld. 2" to 2¾"		2"	2¾"
according to Wt.			
Max. fat loin 1½" to 2"		1½"	2¼"
according to Wt.			

GRADE C

Weight	120 - 185 lb.
Maximum fat shld. according to Wt.	2¼" to 3¼"
Maximum fat loin according to Wt.	1¾" to 2½"

GRADE D

Weight	120 - 185 lb.
Includes underfinished, rough, soft or oily carcasses of any weight.	

LIGHTS

Weight	119 lb. and under
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HEAVIES

Weight	186 - 195 lb.
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EXTRA HEAVIES

Weight	196 lb. and over
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PHYSICAL INJURY — All Weights

RIDGLINGS — " "

STAGS — " "

SOWS—All females that have raised one or more litters.

No. 1 Carcasses of good fleshing throughout.

No. 2 Carcasses that are overly fat or very thin.

CORRESPONDING CARCASS WEIGHTS FOR LIVE HOG WEIGHTS AT VARIOUS YIELDS

Live Weight	DRESSING PERCENTAGE											
	70%	71%	72%	73%	74%	75%	76%	77%	78%	79%	80%	
170 lb.	119	121	122	124	126	127	129	131	133	134	136	
180 lb.	126	128	130	131	133	135	137	139	140	142	144	
190 lb.	133	135	137	139	141	142	144	146	148	150	152	
200 lb.	140	142	144	146	148	150	152	154	156	158	160	
210 lb.	147	149	151	153	155	157	160	162	164	166	168	
220 lb.	154	156	158	161	163	165	167	169	172	174	176	
230 lb.	161	163	166	168	170	172	175	177	179	182	184	
240 lb.	168	170	173	175	178	180	182	185	187	190	192	
250 lb.	175	177	180	182	185	187	190	192	195	197	200	

Sizeable Wiltshires—55 to 65 lb.—are definitely preferred in the export market, and these weights can be cut only from carcasses weighing 143 to 168 lb. While Wiltshires of other weights are exported, they are much less desirable and are subject to discounts.

A reasonably safe weight range for live hogs of average yield is 195 to 215 lb.

Close attention to the weight of his market hogs will yield the producer many extra dollars in immediate returns and also contribute to the improvement of the position of Canadian bacon on the British market.

GRADES FOR LAMB CARCASSES

GRADE A—Carcasses having excellent conformation, finish and quality, relatively blocky and compact, with short, plump legs, broad thick backs, thick full loins, ribs and chucks and short plump necks; loins, ribs, legs and shoulders well covered but not excessively fat.

GRADE B—Carcasses having good conformation, finish and quality; well proportioned and reasonably plump; loins, ribs, legs and shoulders well covered but not excessively fat.

GRADE C—Carcasses having fair conformation, finish and quality; somewhat rangy and angular in conformation; having at least a moderately light fat covering, which may be unevenly distributed; may include overfinished carcasses.

GRADE D—Carcasses having poor conformation, finish and quality, but having at least some traces of exterior fat covering; may include excessively overfinished carcasses.

GRADE E—Culls.

1. Lacking finish, quality and general conformation.
2. Having serious physical injury.
3. Having spear-grass infestation.
4. Coarse and lacking in quality.

Male lambs which have not been castrated will be graded as above but will also be designated as "Bucks".

GRADES FOR MUTTON CARCASSES

GRADE A—Carcasses having excellent conformation, finish and quality, with short plump legs, thick loins and ribs, fully fleshed shoulders, and thick breast; a smooth, well distributed fat covering, interior fats plentiful; all fats cream colored and brittle, but not excessive or patchy.

GRADE B—Carcasses having good conformation, finish and quality; well proportioned and reasonably plump; a fairly uniform fat covering which may be slightly deficient or slightly excessive, but not extremely fat or patchy.

GRADE C—Fair conformation, finish and quality; may be comparatively narrow, lengthy and angular; some fat covering over the back, loins and rump.

GRADE D—Poor conformation, finish and quality; narrow, thinly fleshed, and lacking in finish; bone white and flinty; flesh coarse, soft or flabby.

GRADE E—Excessively overfat.

GRADE M—Culls, due to extremely poor finish and quality, usually from old ewes; or serious physical injury.

BUCKS—Carcasses of mature male sheep.

WEIGHT CLASSES

Lamb

Grades A, B, C, D.

Class 1—Not over 46 lbs.

Class 2—47-51 lbs.

Class 3—52-56 lbs.

Class 4—Over 56 lbs.

Mutton

Grades A, B, C, D.

Class 1—Not over 70 lbs.

Class 2—71-85 lbs.

Class 3—Over 85 lbs.

Grade E.

Class 1—Not over 100 lbs.

Class 2—101-125 lbs.

Class 3—Over 125 lbs.

BUTTER AND CHEESE GRADES

The regulations governing the grading of creamery butter and cheese are administered by the Dairy Products Division, Marketing Service, Dominion Department of Agriculture.

STANDARDS FOR GRADES OF CREAMERY BUTTER

Scale of Points for Scoring Butter

Flavour	45 points
Texture	15 "
Incorporation of Moisture	10 "
Colour	10 "
Salting	10 "
Packing	10 "

Total 100 points

FIRST GRADE—Flavour: clean, or slight lack of flavour. Total score, 92 and over.—Minimum score for flavour, 39.

SECOND GRADE — Flavour: not clean, slightly weedy, excluding Stinkweed or other pronounced weedy flavours, slightly stale, or stale, or sour, or pronounced woody or other objectionable flavours on the surface or in the butter. Total score, 87 and under 92.—Minimum score for flavour, 37.

THIRD GRADE—Flavour: very stale, or very sour, or fishy, or very unclean, or very metallic, or very yeasty, or very musty, or very cheesy, or very fruity, or rancid, or pronounced weedy flavours, but excluding Stinkweed or similar types of flavours, or other objectionable flavours on the surface or in the butter which are too pronounced for Second Grade butter. Total score, under 87.—Score for flavour under 37, unless "Below Third Grade."

BELOW THIRD GRADE—Flavour: any very objectionable flavour such as very rancid, surface taint, or Stinkweed or other strong weedy flavours which are comparable with Stinkweed, or garlic, or onions, or gasoline, or kerosene. No score given.

NOTE:—The Act states that no person shall manufacture, sell or have in his possession for sale any butter containing over 16 per cent of water, or less than eighty per cent of milk fat.

STANDARDS FOR GRADES OF CHEESE

Scale of Points for Scoring Cheese

Flavour	45 points
Texture	25 "
Closeness	15 "
Colour	10 "
Finish	5 "

Total 100 points

FIRST GRADE — Flavour: clean, no objectionable flavour. Total score, 92 and over.—Minimum score for flavour, 39.

SECOND GRADE—Flavour: fruity, or not clean, or turnipy, or other objectionable flavour. Total score, 87 and under 92.—Minimum score for flavour, 37.

THIRD GRADE—Flavour: rancid, or badly "off" or any flavour inferior to Second Grade excluding any flavours within the definition of "Below Third Grade Cheese." Total score, under 87.—Score for flavour under 37, unless "Below Third Grade."

BELOW THIRD GRADE—Flavour: any very objectionable flavour such as very sour, or gasoline, or kerosene, or garlic, or Stinkweed, or other strong weedy flavours which are comparable with Stinkweed. No score given.

CREAM GRADES

Cream grading regulations are under provincial government jurisdiction. They are administered within each province by the Dairy Branches of the respective Provincial Departments of Agriculture.

The following grade names, grade descriptions, and grade standards apply to the grading of cream for purchases at all creameries in the three Prairie Provinces.

TABLE CREAM shall mean and include any sweet, clean-flavoured, non-frozen cream, the acidity of which is not more than twenty one-hundredths (0.20) per cent at the time of grading.

SPECIAL GRADE shall mean and include any cream which is clean in flavour, of uniform consistency, and suitable for making 94 score butter. Its acidity shall not be more than thirty one-hundredths (0.30) per cent at the time of being graded at the creamery where it is to be made into butter.

FIRST GRADE shall mean and include any cream which is reasonably clean in flavour, of uniform consistency and suitable for making First Grade Butter. Its acidity shall not be more than sixty one-hundredths (0.60) per cent at the time of being graded at the creamery where it is to be made into butter.

SECOND GRADE shall mean and include any cream which does not meet the requirements specified for First Grade or which is bitter, stale, musty, metallic or otherwise unclean in flavour, but which is suitable for making into Second Grade butter.

OFF GRADE shall mean and include any cream with a very objectionable odor or flavour such as kerosene, gasoline, stinkweed, onions or such other flavour as may render the cream unfit for making into Second Grade butter.

NOTE: There is no **TABLE CREAM** Grade for churning purposes in the province of Alberta.

HONEY GRADES

The honey grading regulations are administered by the Fruit and Vegetable Division of the Marketing Service, Dominion Department of Agriculture.

NO. 1 GRADE shall be free from damage and practically free of foreign material; of moisture content not exceeding 17.8 per cent; or with a minimum specific gravity reading of 1.4184 at 68 degrees Fahrenheit referred to water at the same temperature, in the domestic classes of "White," "Golden," "Amber" and "Dark" and in the export classes of "Extra White," "White" and "Golden" and, of moisture content not ex-

ceeding 18.6 per cent, or with a minimum specific gravity reading of 1.4129 at 68 degrees Fahrenheit referred to water at the same temperature, in the export classes of "Light Amber," "Dark Amber" and "Dark."

NO. 2 GRADE which shall be free from damage and fairly free of foreign material; of moisture content not exceeding 18.6 per cent, or with a minimum specific gravity reading of 1.4129 at 68 degrees Fahrenheit referred to water at the same temperature.

NO. 3 GRADE consisting of honey which does not meet the requirements of the foregoing grades but is free from serious damage and fairly free of foreign material and of moisture content not exceeding 20 per cent, or with a minimum specific gravity reading of 1.0433 at 68 degrees Fahrenheit referred to water at the same temperature.

Honey otherwise meeting the requirements of the above grades may be of moisture content not exceeding 20 per cent if pasteurized in an establishment registered with the Department and marked as required.

When honey is granulated, it may, at the option of the packer, be further graded as being of fine, medium or coarse texture, but no honey shall be so marked until it is granulated.

EGG GRADES

The egg grading regulations are administered by the Livestock and Livestock Products Division, Marketing Service, Dominion Department of Agriculture, Ottawa.

GRADE STANDARDS

Grade	Weight Per Dozen	Air Cell	Shell and Appearance Factors	Yolk Condition
A—Large Medium Pullet	24 oz. + 22-24 oz. 18-22 oz.	Not to exceed 3/16" in depth. No floating air cells	Clean, no spots or stains. Sound, regular. No cracks or checks.	Yolk outline indistinct. Reasonably small and round in shape. Well centred. No mottled yolks, grass yolks, germ spots or meat or blood spots allowed.
B—Large Medium Pullet	24 oz. + 22-24 oz. 20-22 oz.	Not to exceed 3/8" in depth No floating air cells	May show slight stains and small spots. Sound. No cracks or checks.	Yolk outline may be slightly visible, yolk shadow slightly oblong but not definitely enlarged or flattened. Yolk—not at top of egg. Must float freely on twirling. No extremely mottled or grass yolks, pronounced germ spots, blood or meat spots allowed.
C	No minimum weight	No maximum air cell size. Floating air cells allowed	May be dirty or stained. May be cracked or irregular	Outline may be distinctly visible, but no yolks adhering to shells. No broken yolk membrane allowed. Extremely mottled yolks, grass yolks, pronounced germ spots and meat spots allowed.

NOTE:—Cracked eggs are packed separately and marked: "Grade C Cracks"

GRADES FOR HATCHING EGGS

The regulations governing the grading of hatching eggs are administered by the Livestock and Poultry Division, Production Service, Dominion Department of Agriculture, Ottawa.

Eggs used for hatching shall weigh at least at the rate of 23 oz. per dozen individually and at least 24 oz. per dozen in tray lots, be clean, sound in shell, of good shell strength, and true to breed colour.

R.O.P. (Record of Performance) are eggs produced by an R.O.P. breeder on his own premises from males and females both having at least two generations of certified ancestry.

R.O.P. SIREN are eggs produced by an R.O.P. breeder or an approved flock owner on his own premises from approved females mated to R.O.P. males.

APPROVED are eggs produced by an R.O.P. breeder or approved flock owner on his own premises from approved females mated to approved males.

NOTE: APPROVED males or females mean selection by external appearance, having no known pedigree breeding record.

BABY CHICK GRADES

The regulations governing the grading of baby chicks sold by hatcheries are administered by the Livestock and Poultry Division, Production Service, Dominion Department of Agriculture, Ottawa.

R.O.P. are chicks produced by an R.O.P. breeder on his own premises or by an R.O.P. hatchery from R.O.P. hatching eggs.

R.O.P. SIREN are chicks produced in an approved hatchery from R.O.P. SIREN hatching eggs.

APPROVED are chicks produced in an approved hatchery from APPROVED hatching eggs.

NOTE: Order your chicks by grades and check the grade tape on all chick boxes:

R.O.P., Tape purple in colour, carrying the words R.O.P.

R.O.P. SIREN, Tape red in colour, carrying the words, R.O.P. SIREN.

APPROVED, Tape blue in colour, carrying the words APPROVED.

DRESSED POULTRY GRADES

The dressed poultry grading regulations are administered by the Livestock and Livestock Products Division, Marketing Service, Dominion Department of Agriculture, Ottawa.

GRADE STANDARDS

GRADE	PHYSICAL CONFORMATION	FLESH	FAT	PIN FEATHERS	DISCOLORATION	TEARS	
						On the Breast	Elsewhere on the body
*SPECIAL or *SPECIAL MILKFED	Normal, no deformities.	Well fleshed, breast full and well fleshed in relation to length and depth of body	Breast, back, hips and pin bones well covered	Not more than 5 on the breast or more than 10 elsewhere on the body	None	No more than one, not longer than $\frac{1}{4}$ inch.	Not to exceed 2; (a) broilers and pigeons not over $\frac{1}{4}$ " (b) other chickens, fowl, ducks and guineas not over $\frac{1}{2}$ " (c) turkeys and geese not over $\frac{3}{4}$ "
A or *MILKFED A	Normal, no deformities, but may have a slightly crooked keel bone.	Relatively well fleshed in relation to length and depth of body. Slightly prominent keel bones will not disqualify.	Chickens, breast, back, hips and pin bones showing fat. Other poultry; well covered with fat.	Not more than 6 on the breast, or more than 12 elsewhere on the body	No prominent discoloration to exceed $\frac{1}{2}$ " square on the breast or 1" square elsewhere on the body.	Not more than 1 tear exceeding $\frac{1}{4}$ " or more than 3 small ones	Not to exceed 2; (a) chickens, fowl, ducks, pigeons and guineas not over $\frac{1}{4}$ " (b) turkeys and geese not over $\frac{3}{4}$ "
B	Normal, but slightly crooked keel bones will not disqualify	Reasonably well fleshed, having insufficient flesh to meet the requirements of Grade A	Sufficient to prevent a dark red appearance.	Not to detract from the appearance of the bird	No prominent discoloration exceeding one square inch	Not more than 2 tears exceeding $\frac{1}{2}$ "	Not to exceed 3; (a) chickens, fowl, ducks, pigeons and guineas not over $\frac{1}{2}$ " (b) turkeys and geese not over 1"
C	Crooked keel bones but not extremely so	Fairly well fleshed.	No minimum requirement	Not to seriously detract from the appearance of the bird.	Not badly discoloured.	Not to exceed 4" in length.	
D	Shall include all birds that do not qualify for any of the higher grades but which are fit for human consumption.						

NOTE—To qualify for any grade under Canadian Dressed Poultry Standards, poultry must have all plumage feathers plucked from the body, wings, hocks and neck to within one inch of the head. venis flushed, feet and mouth cleaned.

* In the case of Chickens.

WOOL GRADES

The wool grading regulations are administered by the Livestock and Livestock Products Division, Marketing Service, Dominion Department of Agriculture, Ottawa.

In Western Canada there are two main classes: RANGE CLIPS—Fleece wool produced under range conditions in the four provinces and predominantly FINE STAPLE and FINE MEDIUM STAPLE; DOMESTIC CLIPS—Fleece wool produced under farm conditions and predominantly MEDIUM STAPLE and LOW MEDIUM STAPLE.

In grading unwashed fleece wool, the following characteristics shall be considered: Condition, cleanness, fineness of fibre, length and strength of fibre, and freedom from black and kempy fibres and other defective wool. Generally speaking, wool of strong fibre and over 2" in length is classed as Staple and under 2" as Clothing.

GRADE STANDARDS

GRADE	RANGE CLIPS					DOMESTIC CLIPS		
	Choice X	Choice	Average X	Average	Bright	Semi-Bright	Dark	
FINE STAPLE FINE CLOTHING FINE MEDIUM STAPLE FINE MEDIUM CLOTHING MEDIUM STAPLE MEDIUM CLOTHING LOW MEDIUM STAPLE LOW STAPLE COARSE GREY and BLACK—Fine, Medium, Coarse, Karakul	Wool that is high yielding, bright and attractive in appearance. It must be well grown, sound, of good combining length, uniform in quality and free from visible earthy matter	Wool must be well grown and attractive, sound and fairly uniform. Must be comparatively free from earthy matter.	Wool must be generally well grown but may contain some weathered tips and some earthy material. Heavier shrinking and darker in appearance than Choice.	Dark looking and heavy or very badly weathered and wasty. Usually contains a considerable amount of sand and dust.	Fleeces that are well grown with good colour and very light shrinking.	Fleeces that are average in character, rather dingy in appearance and carrying slightly more organic matter.	Fleeces that are dark coloured and quite heavy with sand or any other foreign material. Also includes wools that are badly "timber stained" or fleeces that are brashy and wasty.	
DEAD—Fine, Medium, Murrain CHAFFY and BURRY—Light-Fine Medium Heavy-Fine Medium COTTS—Soft, Hard TAGS—Fine, Medium DAMAGED KEMPS SWEEPINGS	Defective Grades							
	Standard Grades							

Defective Grades: Wool of similar quality to the regular grades but with a "defect" which impairs its value for manufacturing purposes.

FOX PELT GRADES

The silver fox grading regulations are administered by the Livestock and Livestock Products Division, Marketing Service, Dominion Department of Agriculture.

STANDARD SILVER and WHITE — MARKED SILVER

Colour Phases:

DARK means less than 40 per cent of the area of the back of the pelt is covered with silver guard hairs.

HALF SILVER means 40 per cent to 60 per cent of the area of the back of the pelt is covered with silver guard hairs.

THREE-QUARTER SILVER means over 60 per cent to 80 per cent of the area of the back of the pelt is covered with silver guard hairs.

SEVEN-EIGHTS SILVER means over 80 per cent to 95 per cent of the area of the back of the pelt is covered with silver guard hairs.

FULL SILVER means over 95 per cent of the area of the back of the pelt is covered with silver guard hairs.

NOTE: **DARK** and **HALF SILVER** apply only to **STANDARD SILVER** fox pelts.

GRADES:

CANADA SELECT—Pelts of extra good quality evenly furred, densely silvered (having regard to colour phase) of reasonably clear colour, primeness and character, and with only minor weaknesses permitted.

CANADA GRADE A—Pelts of good quality, character, and colour, with guard hair and underfur blending.

CANADA GRADE B — Pelts of average quality and character. They may be slightly off colour.

CANADA GRADE C — Pelts of fair quality, they may be open, weak furred, somewhat off colour and lacking in character.

INFERIOR — Pelts of poor quality throughout and definitely lacking in character.

REJECT—Pelts of extremely low quality throughout, including culls and samsons.

NEW TYPES

Description:

PLATINUM—Are of a whiteish steel grey colour with a sparse intermingling of dark hairs, the underfur having a light bluish grey shade, blending with the guard hairs, giving a rich platinum effect.

PEARL PLATINUM — Are of a bluish grey colour with underfur of the same general colour, and guard hairs having silver characteristics.

WHITE-MARKED PEARL PLATINUM — Are the same as PEARL PLATINUMS except that white markings are noticeable on the pelts. (They are also known in the trade as PEARL-ATINAS).

GLACIER-BLUE — Are tagged at present under PLATINUM classifications but as soon as sufficient quantities come to market they shall have individual listing as at present apply to the other new types.

Colour Phases:

DARK, MEDIUM, LIGHT, and EXTRA LIGHT GRADES:

CANADA SELECT — Pelts of extra good quality, evenly furred, of reasonably clear colour and character and with only minor weaknesses permitted.

CANADA GRADE A — Pelts of good quality character and colour, with guard hair and underfur blending in colour.

CANADA GRADE B — Pelts of average quality and character. They may be slightly off colour.

CANADA GRADE C — Pelts of fair quality, they may be weak furred, somewhat off colour and lacking in character.

INFERIOR — Pelts of poor quality throughout and definitely lacking in character.

REJECT — Pelts of extremely low quality throughout, including culls and samsons.

With the exception of "Rejects" all of the above grades shall be classified into sizes as prescribed below:

LARGE — A large pelt should be 34 inches or more in length.

MEDIUM — A medium pelt should be at least 30 inches in length.

SMALL — All pelts below medium size.

All pelts should be measured from the nose to base of tail, and the width should be in proportion to the length.

NOTE: The name "Platina" has been adopted by the Norwegian Fox Industry to distinguish them from the American raised **PLATINUM** type, and this name is registered in the U.S.A. as a trademark.

HIDE GRADES

The following classifications for the purchasing of hides have been established by dealers.

CATTLE HIDES

PACKER HIDES — Are purchased from abattoirs basis No. 1 and No. 2 grades.

COUNTRY HIDES — Are purchased from country butchers and farmers basis No. 1, No. 2 and No. 3 grades.

BRANDS — Are from branded animals and are purchased on the basis of No. 1 and No. 2 grades.

KOSHERS — Are discounted $\frac{1}{2}$ cent per pound since the throat is cut cross-wise partially destroying the pattern.

GRUBBY — Are badly damaged by warble flies.

Grade No. 1 — Shall be free of cuts, wire or horn scratches, warts, or other bad damage, and be of good pattern.

Grade No. 2—May have deep scores or cuts, some damage to the grain through wire or horn scratches, and may be slightly off pattern.

Grade No. 3 May have bad cuts, bad warble damage, be badly dragged, hairslipped, poorly patterned, or poorly slated. They are discounted 50%.

Hides are selected according to the following weights:

Packer Hides

Heavy — 58 lbs. and over.

Bufs — 43 to 57 lbs.

Extremes — 23 to 42 lbs.

Kipskins — 15 to 22 lbs.

Calfskins — 15 lbs and under.

Country Hides

Selected for weights in the case of Kipskins and Calfskins. Hides weighing over 60 lbs. are discounted.

HORSE HIDES

RENDERER'S TAKE-OFF — Are purchased from renderers.

COUNTRY TAKE-OFF — Are purchased from farmers.

Grade No. 1 — Shall be free of cuts and damage to grain, must contain full heads and shanks, and be of good pattern.

No. 2 — May have 5 cuts, must be free of damage to grain, but may be off pattern.

No. 3 — May have more than 5 cuts, damage to grain, be hairslipped, and badly off pattern.

HAY AND STRAW

Official standards of quality and condition for Timothy and Clover Hay, Alfalfa and Alfalfa Mixed Hay, Grass Hay, Mixed Hay and Straw, have been established by the Dominion Department of Agriculture.

Copies of the "Hay and Straw Inspection Act —with Official Hay Standards" may be obtained free from any district office of the Plant Products Division, Winnipeg, Saskatoon, or Calgary; or from the Dominion Department of Agriculture, Ottawa.

WEIGHTS OF GRADES—Minimum

Grades are not determined by weight alone. Quality must be considered. The following are the minimum weights for each grade:—

WHEAT	lbs.
1 Hard	62
1 Northern	60
2 Northern	58
3 Northern	57
4 Northern	56
4 Special	53
*No. 5	53
*No. 6	51
*Feed	—
*No. 5 Special	51
*No. 6 Special	49

GARNET WHEAT

No. 1 C.W. Garnet	60
No. 2 C.W. Garnet	58
No. 3 C.W. Garnet	57

WHITE SPRING AND SOFT WHITE SPRING

No. 1 C.W.	60
No. 2 C.W.	58
No. 3 C.W.	57
No. 4 C.W.	54

AMBER DURUM

1 C.W. Amber Durum	62
2 C.W. Amber Durum	60
3 C.W. Amber Durum	58
4 C.W. Amber Durum	56
5 C.W. Amber Durum	54
6 C.W. Amber Durum	—

WINTER WHEAT lbs.

1 Alberta Red Winter	62
2 Alberta Winter	60
3 Alberta Winter	57

BUCKWHEAT

No. 1 C.W.	50
No. 2 C.W.	48
No. 3 C.W.	45
No. 4 C.W.	42
Sample Buckwheat ...	—

FLAX SEED

No. 1 C.W.	51
No. 2 C.W.	50
No. 3 C.W.	47
No. 4 C.W.	—

BARLEY

1 C.W. Six-Row	50
2 C.W. Six-Row	48
3 C.W. Six-Row	46
2 C.W. Yellow	48
3 C.W. Yellow	46
1 C.W. Two-Row	51
2 C.W. Two-Row	49
1 Feed	46
2 Feed	43
3 Feed	—

*Subject to ruling of the Western Committee on Grain Standards.

WEIGHTS OF GRADES—Minimum—Continued

RYE

1 C.W.	58
2 C.W.	56
3 C.W.	54
No. 4 C.W.	—
Ergoty Rye	—
Ergoty Rye and other grains	—

OATS

1 C.W.	38
2 C.W.	36
Extra 3 C.W.	40
3 C.W.	34
Extra 1 Feed	38
No. 1 Feed	34
No. 2 Feed	28
No. 3 Feed	—
Mixed Feed	—

CORN

Yellow, White, Mixed

1 C.W.	56
2 C.W.	54
3 C.W.	52
4 C.W.	50
5 C.W.	47

SOYBEANS

Yellow, Green, Brown,
Black, Mixed.

No. 1 Canada	58
No. 2 Canada	56
No. 3 Canada	54
No. 4 Canada	51
Sample Canada	—

SUNFLOWER SEED

No. 1 C.W.	24
No. 2 C.W.	21
No. 3 C.W.	21
No. 1 Mixed C.W.	24
No. 2 Mixed C.W.	21
No. 3 Mixed C.W.	21
Sample C.W.	—

PEAS

No. 1 C.W.	62
No. 2 C.W.	60
No. 3 C.W.	58
No. 4 C.W.	—
Sample C.W.	—

TAME MUSTARD

	Yellow	Brown
Extra 1 C.W.	57	—
1 C.W.	55	54
2 C.W.	53	53
3 C.W.	51	51
Sample C.W.	—	—

STANDARD WEIGHT in
contracts for sale and
delivery

Barley	48
Beans	60
Buckwheat	48
Corn	56
Flax Seed	56
Millet	48
Oats	34
Peas	60
Rape	per lb.
Rye	56
Speltz	50
Soybeans	60
Sunflower Seed	per lb.
Wheat	60
Mixed Grain, No. 1	60
No. 2	56
No. 3	48

TABLE OF FREIGHT RATES

Freight charges per bushel on different grains shown from all stations with given freight rates per 100 pounds. Ask our agent for freight rate from your shipping point.

Rate per 100 Lbs.	Rate per Bushel on				Flax	
	Wheat	Oats	Barley	Rye	Rate per 100 lbs.	Rate per Bushel
Cents	Cents	Cents	Cents	Cents	Cents	Cents
4	2.40	1.36	1.92	2.24	5½	3.08
5	3.00	1.70	2.40	2.80	6½	3.64
6	3.60	2.04	2.88	3.36	7½	4.20
7	4.20	2.38	3.36	3.92	8½	4.76
8	4.80	2.72	3.84	4.48	9½	5.32
9	5.40	3.06	4.32	5.04	10½	5.88
10	6.00	3.40	4.80	5.60	11½	6.44
11	6.60	3.74	5.28	6.16	12½	7.00
12	7.20	4.08	5.75	6.72	13½	7.56
13	7.80	4.42	6.24	7.28	14½	8.12
14	8.40	4.76	6.72	7.84	15½	8.68
15	9.00	5.10	7.20	8.40	16½	9.24
16	9.60	5.44	7.68	8.96	17½	9.80
17	10.20	5.78	8.16	9.52	18½	10.36
18	10.80	6.12	8.64	10.08	19½	10.92
19	11.40	6.46	9.12	10.64	20½	11.48
20	12.00	6.80	9.60	11.20	21½	12.04
21	12.60	7.14	10.08	11.76	22½	12.60
22	13.20	7.48	10.56	12.32	23½	13.16
23	13.80	7.82	11.04	12.88	24½	13.72
24	14.40	8.16	11.52	13.44	25½	14.28
25	15.00	8.50	12.00	14.00	26½	14.84
26	15.60	8.84	12.48	14.56	27½	15.40
27	16.20	9.18	12.96	15.12	28½	15.96
28	16.80	9.52	13.44	15.68	29½	16.52
29	17.40	9.86	13.92	16.24	30½	17.08
30	18.00	10.20	14.40	16.80	31½	17.64

MEASURE

12 Inches	1 Foot
3 Feet	1 Yard
5½ Yards	1 Rod
320 Rods	1 Mile
1760 Yards	1 Mile
80 Chains	1 Mile
6 Feet	1 Fathom
69½ Miles	1 Degree
1760 Yds. or 5280 Ft.	1 Mile

AVOIRDUPOIS WEIGHT

16 Drams	1 Ounce
16 Ounces	1 Pound
7000 Grains—16 oz.	1 Pound
100 Pounds	1 Hundred weight Cwt.
2000 Pounds, or 20 Cwt.	1 Ton

SURVEYORS' MEASURE

7.92 Inches	1 Link
25 Links	1 Rod
100 Links, 4 Rods, or 66 Feet	1 Chain
80 Chains	1 Mile
10 Square Chains	1 Acre
640 Acres	1 Square Mile

SQUARE OR LAND MEASURE

144 Sq. Inches	1 Sq. Foot
9 Sq. Feet	1 Sq. Yard
30½ Sq. Yards	1 Sq. Rod
160 Sq. Rods	1 Acre
640 Acres	1 Sq. Mile

DRY MEASURE

2 Pints	1 Quart
4 Quarts	1 Gallon
2 Gallons	1 Peck
4 Pecks	1 Bushel
36 Bushels	1 Chaldron

MEASURE OF CAPACITY

2 Pints	1 Quart
4 Quarts	1 Gallon
31½ Gallons	1 Barrel
63 Gallons	1 Hogshead

LIQUID MEASURE

6 tbsps.	1 gill
2 gills	1 cup
2 cups	1 pint
2 pints	1 quart
4 quarts	1 gallon
1 pint	20 fluid ounces

MEMBER COMPANIES

ALBERTA PACIFIC GRAIN CO. (1943) LTD., THE
FEDERAL GRAIN LIMITED
SEARLE GRAIN CO., LTD.
NATIONAL GRAIN CO., LTD.
PIONEER GRAIN CO., LTD.
WESTERN GRAIN CO., LTD.
CANADIAN CONSOLIDATED GRAIN CO., LTD., THE
OGILVIE FLOUR MILLS CO., LTD., THE
LAKE OF THE WOODS MILLING CO., LTD.
PATERSON & CO., LTD., N. M.
McCABE GRAIN CO., LTD.
PARRISH & HEIMBECKER LIMITED
MIDLAND & PACIFIC GRAIN CORPORATION LTD.
INTER-OCEAN GRAIN CO., LTD.
INDEPENDENT GRAIN CO., LTD., THE
ELLISON MILLING & ELEVATOR CO., LTD.
CANADA WEST GRAIN CO., LTD.
SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY LTD.
HOME GRAIN CO., LTD.
MUTUAL GRAIN CO. LTD.
ROBIN HOOD FLOUR MILLS LIMITED
RED RIVER GRAIN CO., LTD.
PURITY FLOUR MILLS LTD.
MAPLE LEAF MILLING CO., LTD.
QUAKER OATS COMPANY OF CANADA LIMITED, THE

Additional copies of this booklet may be obtained from any of the above Companies or from The North West Line Elevators Association, Winnipeg or Calgary.